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AN HISTORIC HOME.

COMBINE AND EMBELLISH.

George W. Childs's Handsome Dining-Room-Its Princely Appointments-Noted Guests Who Have Been Entertained.

The dignity and permanence of a habitation most careful attention. the forest before he can build his cabin. After stress of daily life, the interplay of wit and pantry. citizen has time to pause and look about him festival. and woo that gentler spirit which softens and To give this apartment in which so many convert the rooms into two apartments when- walls are hung with Japanese paper, having

The dwelling should "bear witness that so many noble gatherings, is a handsomely scene. Under gaslight this effect is heighthuman pleasure is the end for which it is decorated apartment. It measures thirty feet ened to a remarkable degree. built and garnished. It stands there under by fifteen, and is about sixteen feet in height. The wood-work of the room is highly pol-WHERE ELEGANCE, TASTE, AND ART the sun and moon, to ends analogous and no Occupying the southwestern extremity of the ished oak, trimmed with amaranth, the rich less noble than theirs." And what portion of mansion, the sunshine streams in through a coloring of which contributes to heighten, by the dwelling is worthy of more consideration window in the western extremity and another contrast, the tint of the native wood. The than that in which the body is daily refreshed near it on the south. It is entered by a broad heavy oak casings about the doors and winand fortified? That garment of the soul on doorway at the end of the spacious hall, from dows have each three mouldings of the darker the exhibitaration and health of which so much which the visitor, as he advances through the wood, and are surmounted by projecting, lowpower and ease depend certainly demands the vestibule, looks adown a vista terminating in arched cornices, all finished alike. At either

is nowhere better shown than in its dining- For eating is not a mere physical process extremity of a smaller hall leading out of the filled with a large arched mirror in a massive room. The pioneer is compelled to hew down among cultured people. The relaxation of the dining-room and on one side of the butler's frame of oak, inlaid with the darker wood.

that comes the foundry, the machine-shop and wisdom, the spontaneous flow of conversation On our left, separated from the dining-room above the wainscoting-which serve to hold the railroad, for utility is inexorable, and without undue restraint and convention, the by one elegantly carved and gilded pillar and the treasures overflowing from cabinets and beauty must wait until the demands of her friendly intercourse of genial people, dominate one pilaster on either side, is the music-room, buffets-to within three feet of the ceiling. elder and stronger sister are satisfied. After the mere desire to appease hunger, and under in the center of which are 2. grand pianos. The wainscoting, about thirty inches in rude force is tamed into power, orderly and the right circumstances converts even a sim- Heavy hangings of tapestry having figures of height, matches the rest of the wood-work; regular as the succession of the seasons, the ple but daintily served meal into a royal rich, dark colors in renaissance designs on a it is paneled in oak with mouldings of ama-

a full length mirror set in a door-frame at the side of the west window the wall space is These mirrors reach from the carved shelves

black ground and dados of wine-colored plush, ranth, and a broad and heavy surbase. The





CELEBRATED DINING SET OF MRS. GEORGE W. CHILDS, OF PHILADELPHIA.

refines the harsh and repulsive facts of mate- hours are spent the dignified place it deserves ever desired. Generally, the fifty feet or more an embossed ground of gold with birds or rial existence. The cabin gives place to the in the economy of the household, it must be which comprise the entire south side of the paradise and grapes in natural colors. The mansion more or less convenient and elaborate, situated on the first floor, and be light, cheer- mansion form one apartment, giving a sense ceiling carries out the prevailing tones of which is rendered as attractive as his means ful, and well ventilated. The one __der con- of luxurious breadth seldom attained in a light color in cream and gray. The arched and tastes allow. The hall had at first merely sideration fulfills all these conditions. The private dwelling. At the end of the music- cove uniting it with the walls is richly decoan entrance, narrow, cold, and cheerless, with- arrangements of the room are not only beauti- room farthest from the dining-room is a rated and edged with gilding. Fifteen inches out a single softened feature to abate its ful in themselves, but they afford a fitting superb mirror in a massive frame, beneath within this cove another moulding crossed crudity. From it rose the stairs, straight and background for the brilliant groups which so which stand three large vases from the Royal horizontally with narrow gilt bands surrounds gaunt to the floor above, as uninviting as the often there assemble in answer to the calls of Berlin manufactory, which kings have cov- a second, and within all is the large central rooms to which they gave access. In the new hospitality. Ceiling, walls, floor, and orna- eted in vain, so lovely they are, in form, color, parallelogram.

dwelling they are widened and finished with ments are treated separately, in relation to and finish. As the music-room in turn opens Two large pieces of furniture break the carvings of wood and marble. The black, other portions of the room, and then to the into the drawing-room on the left or eastern north and south walls, and immediately atbare walls need color, and the builder sends suite of which it forms a part. It is thus side, with no other separation than similar tract the eye. On the north side of the cabifor an artist to tone them into richness and made subservient to the great law of harmony side pillars and pilasters, it will be readily net, built like the rest of the room out of harmony. The drawing-room is made cheer- which weaves the whole into a work of art, as seen what a magnificent sweep is obtained in contrasting wood, is supported by carved and ful or imposing and the chambers pleasant finely finished as a casket from the hands of a this elegant series of rooms. They are appar- gilded pillars of the height of the wainscoting ently duplicated again and again by mirrors and flanked by carved griffins. On its shelves and convenient, but the warmth and cheer of cunning jeweler.

It is really the heart of the house.

his life find their home in the dining-room. The dining-room of Mr. George W. Childs, which produce an endless succession of vistas, are stored those fifteen pieces of exquisite of Philadelphia, which has been the scene of and greatly increase the brilliance of the royal Vienna porcelain which are represented

in Fig. 1. These plates once belonged to the and barometer, united in a large circular disc curios is a case of repousse silver, a foot high, gold and a border of gold and ivory, exceed-Ex-Queen Caroline of Naples, and were made of silver and steel. It is after Torricelli, and supported on a stand of the same metal. It is ingly rich in coloring. for the royal household in its days of un- the facsimile of one owned by the Duke jointed to admit the glass bottle holding Apol- Then there are lunch, tea, and dessert plates clouded grandeur. Having been lost to the d'Aumale.

who love beauty. Some of them, from the walnut set in mahogany, and there are cup- things is the coronet, one belonging to Lord som,-seeming to lack only the fragrance they fineness of the paste and evenness and lustre boards, storerooms, and receptacles enough to Brougham, now used to encircle the base of a breathe on hill and dale. Beside them repose of glaze, are perfection, and worth their weight hold all the appurtenances of a lavish hospi- crystal fig-holder. Could the brilliant and another floral procession on plates having an in the gold, as only such objects are. Those tality. As if these were not enough, the story witty statesman have dreamed what would ivory ground and octagonal form. And, again, will not wonder who appreciate the amount above, reached by stairs at one side of the become of the insignia of his rank, he might one set, of Copeland make, has incised of toil expended upon every step of the pro- pantry, is filled with storerooms groaning possibly have rhymed something in this borders and is decorated with both birds and cess, from the triturating and mixing of clay under the weight of precious porcelain and wise :and mineral substances to the final firing. crystal, much of which deserves to be treated Each plate is the product of an incalculable as a separate work of art. Let us see how the amount of manipulation in various ways, re- table is set, as in the illustration, for one of quiring the experience of a life-time of study those dinner parties in which even only a Near it is a silver beaker, tall and slender, on various services which have been described; and skill. The crude, inert mass of unsightly small portion of this collection is drawn upon. a salver two feet in diameter. We notice of others, one set is of turquoise blue, one of clay and mineral debris is mixed in accurate As it usually stands it is covered by a scarlet that the individual salts and spoons are silver canary color, and one pink as the petal of a proportions, ground again and again, and spread of Oriental cashmere, heavily em- and the butter-plates silver gilt. But we turn damask rose. There are teacups to match in then strained and dried to form the raw ma- broidered with bullion thread. In the center from the silver and crystal, beautiful as it is, tint any set of porcelain, and separate services terial to be shaped by a guiding intelligence. is a mirror lake, four feet long by three feet to the porcelain, only one course of which is in green, blue, crimson, and with flower The decorator takes it in hand, and touch high. It bears a centre piece in richly chased on the table in the illustration. The reader designs. It is impossible to describe minutely after touch, point after point, line after line, silver gilt, vasiform, and finished at the top will have to follow me from the dining-room the extent, variety, and richness of the collecaccurate and fine to a hair's breadth, the with eight burners, though it is used for flow- to the upper pantries, with their store of tion, both in silver, crystal, and porcelain. It skilled artist traces the pattern and applies ers instead. It has a floriated gilt border of precious objects. the coloring. He must be master of the depth open-work, smiling at its own reflections, Here we find the best works of Minton, grown, little by little, during the last fourteen and value of his tints, which are only devel- several inches in height, and the whole is made when every piece was an object of years. In intrinsic value it far exceeds the oped by firing. The difficulty of the work raised three inches from the table. The end- especial care. The illustration of the table, estimate placed upon it in print; but that is has then just begun. His mineral paints may pieces, of silver and gilt candelabra, also richly from the nature of the picture, cannot show priceless which has been gathered from the treacherously blur the accurate image, or the chased and supported and finished by winged that in use at the time. The service is so full far ends of the earth, accompanied with a firing be continued a minute too long or too griffins, are nearly eighteen inches high, and that a large dinner can be completed with that sympathetic appreciation of the loveliness and short, and so the work of months comes to contain, each, three burners. These are also alone. The plates are edged with a gilt band rarity of the workmanship and artistic beauty. naught. The successful artist, through con- decorated with flowers and vines. first existed in his own mind, and the ideal the table is a silver and gilt wine-cooler, one flowers looped against the narrow turquoise who have brought them together in one of the becomes the real. It is therefore an outgrowth of his science, art, sense of fitness, harmony, and refinement, until one little plaque becomes an embodiment of the trained intelligence of the century.

The centre of each of the plates in this cabinet is a picture in miniature from some work of art having world-wide renown. Here is a facsimile of one of Raphael's matchless frescoes in the Farnesian Palace in Rome. The traveler who followed that great master through his series of Jove, Cupid, and Psyche, one of the most spirited and graceful of all his works, will be able to recognize even in the photograph the meeting and salute of Jupiter corner, copied from the beautiful Pompeian mosaic, Pliny's doves, thus named because that writer described the finished work over eighteen hundred years ago. Through all succeeding generations of changeful dynasties these graceful emblems of innocence have slaked their thirst in noiseless beauty from that overflowing bowl upon the wall of some art-loving dweller beneath the shadow of Vesuvius, only to be reproduced in another form, equally artistic, in a still more sumptuous home in a then undiscovered hemisphere! What a lesson that

"Art is long, but Time is fleeting."

There are also pictures after Van Dyke, Rembrandt, and other artists, no two alike. Turn-

To what base uses do we come at last? To grace, with figs, so dainty a repast. A fig I care not! for the past is past.

summate skill, finally evolves that which Standing by the candelabrum at one end of garlands of small, brilliant, many-colored productions of the skill of the ages than they

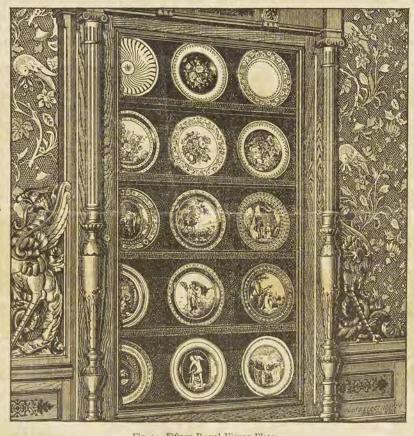


Fig. 1.-Fifteen Royal Vienna Plates

ing to the opposite or south wall, we see a fine foot in height, with four raised circular panels blue band just within the gilt. The monogram Canon Farrar, Charles Dickens, Wilkie piece of furniture in a buffet built into the of cupids and graces. The corresponding of Mr. Childs, of the same flowers, an inch or Collins, J. A. Froude, Prof. Tyndall, Prof. room and matching the rest of the wood-work article at the opposite extremity is a crystal more in diameter, fills the middle of the plate, Goldwin Smith, Admiral Lord

linaris water, and is a most unique article, of a multitude of designs. One specially used queen by one of those mischances which are The butler's pantry, in a wing on the south made from a design drawn by a friend. for luncheon shows various kinds of sea-weed apt to befall monarchs, they have found a fit- side of the dwelling entered by a short passage There is also a wise, solemn looking owl, in and ferns painted with consummate skill, in ting resting-place as the nucleus of that im- opposite the hall door, would delight any gilt and silver, a foot in height. The only natural tints, on a cream ground with bordermense collection of porcelain which is used housekeeper having a spark of enthusiasm for duplicate of the quaint bird is the one from ings of gilt. And one set, executed as delifrom time to time in the room under considera- things dear to a woman's heart. Ceiling and which this was copied, in the British Museum. cately as the conception is artistic, consists of tion. They are now sources of delight to all walls are paneled with the heart of black One of the most interesting of all these different wild-flowers,-root, leaf, bud, and blos-

> flowers. One special compartment is devoted to after-dinner coffee-cups and saucers, and their larger cousins made for the Chinese herb. Some match one or another of the

is the result of care, taste, and time, and has a half inch wide on a ground of white, with No persons could more thoroughly enjoy the most charming homes of America, And certainly none could have more gracefully extended to others the privilege and delight of sharing that enjoyment. That this gracious hospitality has been thoroughly appreciated. we need not assert, yet among scores of other letters and testimonials received by Mrs. Childs, the following will be of interest, since it refers particularly to the subject considered here :--

CAMBRIDGE, May 5, 1878.

DEAR MRS. CHILDS :- I send you by today's post a copy of my last volume of poems, "Keramos." Please accept it as a kind of running commentary on the beautiful china

I have not written your name in the vol-ume, because it is forbidden by law to write anything in books sent by mail. But this note will do as well, and will just fit into the cover of the book.

Hoping that you and Mr. Childs and Miss Stanley are all well, I am, with kind remem-Yours very truly, HENRY W. LONGFELLOW. brance,

Besides distinguished Americans, we may note, among the guests of Mr. and Mrs. Childs, many from other countries whose names are not unfamiliar to our readers. Among such are Dom Pedro and the Empress of Brazil; the Duke and Duchess of Buckingham; the Duke of Sutherland and the Duke of Newcastle; the Lords Dufferin, Roseberry, Ross, Houghton, Ilchester, Caithness, and Dunraven; Sir Stafford Northcote, Lady Franklin, Dean Stanley, Canon Kingsley,

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is a series of cupboards.

portieres, are over lace curtains, finished at things of their kind are used.

the top with heavy arched mouldings of wood. But all nations are represented. Claret jugs for his models. One service has a light ground dwell in an unstoried land. To make the The Aubusson carpeting made for the floor and wine-glasses from Bohemia, and a set of on which specimens of the feathery tribe are home the centre of good influences, to secure corresponds exactly to that upon the music claret tumblers from Carlsbad, ornately enam- boldly executed. And another full service, its permanence and attractiveness, to embeland drawing-room in its tints of crimson, eled with sprays, flowers, and butterflies in apple-green in color, with a mottled centre and lish it with objects of enduring loveliness, to ivory, dull-green, and old-gold. The other gilt, crimson, and blue, give dashes of coloring border of flowers and birds, has compotes to gather choice and noble minds around the rooms are brilliant with crimson, ebony, and and variety of form to the profuse and varied match. One set having delicate flowers hearthstone,-these are the best of the ends for gilding; this is the culmination of cheerful- service. Amidst the collection of crystal is a painted on a light body color of crimson and which the home is established. The desire

is lighted by a large central chandelier in are so unique and beautiful as to challenge sing, is exceedingly lovely. porcelain and gilt with twelve burners; two universal admiration. They were presented Another full dinner service is no less beau- and huge granaries and much shipping; it is

side candelabra with mirror backs, and two by General Grant.

tiful than striking. From the Royal Vienna that the inmates may be able to give benefits

drop candelabra before the end mirrors. The silver contains too many pieces to manufactory, it is of that king's-blue color and receive culture. These are truths under-Among the wall ornaments is a large Swiss enumerate, embracing specimens of many which royalty once appropriated. On medal- stood in this mansion of the city of Brotherly wood-carving in high relief, a mythological varieties of manufacture. Only a small por- lions of ivory within the border are bouquets Love.

scene containing groups of figures, a seaport tion of the sterling plate is in use at any one of flowers, in natural tints. Still another Glancing adown the long vista from the and an embarkation, on the north wall. On time. A large soup tureen and its salver are course set of plates have centres of blue and table, overflowing with gracious abundance, the other side of the cabinet is a curious clock elegant in form and finish. Among the crimson, on which is a geometrical pattern in the visitor sees other works of art, in the

in material and construction. About eight bowl, fifteen inches in diameter and nearly as But we cannot linger too long over the Paget, Marquis M. Rochambeau, and many feet wide and thirteen high, the central com- high, used for flowers. This and its compan- table, since other treasures await attention. others.

partment is a mirror with an arched top, set ion in another city are the finest pieces of There are sets of fish-plates, with cream grounds, Thus the decorated objects in this room, in a recess over a shelf of marble, which du- glass yet made by any American manufac- no two alike. Each is a picture to delight the chased and carved by expert artists, brilliant plicates the cabinet and its treasures across turer, and for beauty and perfection of cutting taste of an Isaak Walton, no less than the eye with gilding, flushed with the roseate tints of the room. The cabinets beside the mirror they are unexcelled by the best Baccarat of an artist. The trout, salmon, bass, and dawn, glowing with the ruby of the sunset or hold pieces of glass and silver worthy of sepa- ware. The work was done by Thomas shad, disporting in their native element, are cool with the blue of evening skies, have an rate illustration, and under the whole buffet Hawkes, the great-grandson of that Mr. perfect as the originals. The oyster-plates intangible charm cast over them by precious Hawkes who first introduced cut-glass into comprise, among others. a set, each plate of associations. These lend to the home a

The dining-room doors of oak inlaid with England. The profusion of crystal upon the which is unlike any other; so of a large har- witchery which time deepens rather than amaranth are set in frames of the two woods. table in the shape of exquisite carafes, com- lequin set for luncheon. Another service of dispels, like the aroma of an old vintage, the In the hall the frames are of marble, which pote, fruit, and bonbon stands, low and high, Minton-ware is decorated with flowers and depth of tone of an old picture, the melody of replace wood entirely in both hall and vesti- and with or without silver bases, is a revela- Japanese figures in medallions, or fans, on a childhood's song. They are something to bule. The dining-table, long enough to seat tion of the stage to which glass-cutting is grounds of either red, green, or blue. There which memory attaches her lines of retrospectwenty-four persons, is of solid oak. So are carried in the United States. It awakens are also four sets for any use, as well as for tion, light as cobwebs, yet strong as cables. the chairs with dark-green leather seat and fresh pride and interest in the artists and birds or game, with eighteen or twenty-four It is this which hallows the simplest home, back coverings. The curtains of tapestry, artisans in our own land to see these choice plates in each set, all painted with that minute and makes an old mansion a place of surpasswith dados of crimson plush matching the productions in a place where only the best and careful fidelity at which he only can ing interest. Associations have converted the arrive who loves his work and goes to nature old world into a storied haunt for all who

ness and brightness, and yet equally rich. It set of Bohemian champagne glasses, which brown, among which birds fly or nest and for riches in generous souls is not for the hoarding of bonds and stocks of broad lands

music-room, directly connected with the room Mankind grow when they plant their feet just described. In group No. 3 is represented, firmly upon the earth. The roof above and on the left, one of three vases which stand the rood of earth below anchor them to life. under the mirror at the eastern extremity of And the accumulation of whatever ministers BOLD SCHEME OF PLUNDER PROMPTLY that apartment. These Victoria vases, the to the well-being and culture of the inmates matchless production of the Royal Berlin is the right, if it is the pleasure, of him who Goods Ordered, but not Delivered to the Fraud, ten miles and over. This result is brought manufactory, were widely admired when on has fixed his hearthstone in accordance with exhibition at London, and were secured after the principles of justice and wisdom.-Good competition with a continental sovereign. Housekeeping.

The one portrayed is thirty inches in height, and is the central one, the others being slightly smaller. They are exquisitely painted in that work is nobler than living on other attempted fraud which was checked by the duces the pressure locally and increases the flowers of the softest and richest tiuts, which people; that the problem of to-day is not a lover of ceramics never wearies of studying. alone how to make money, but how to distrib-Next it comes a small Royal Worcester vase, ute it, and that things that were not what way in which he blocked the game of the new system. Whether these claims will be with decorations after the Japanese, an excel- they should be a score of years ago, seem to be swindler. The story is given in full, because substantiated, or the company sink into oblivlent example of that kind of work. all right now.

NIPPED IN THE BUD.

Who Finds That "You Cawnt do it,

REMEMBER, remarks Work and Wages, December 13th contained an account of an length of wire. The converter, it is said, repromptness of a patron and friend of the quantity of electricity while it diminishes the KEYSTONE, who deserves great credit for the force. A company is being formed to push the the scoundrel is at large, and will probably at- ion like many of its predecessors, remains to be tempt to repeat his little game in other locali- seen. ties.

> On Wednesday last, Mr. T. B. Steacy, the well-known jeweler, was somewhat surprised by the receipt of a telegram from Tiffany & Enthusiastic Description of the Charms and Co., the famous jewelry firm of New York, asking instructions regarding goods which they were about to ship to him. Mr. Steacy had never ordered any goods from Tiffany & of Professor Elliott's book on "Our Arctic Co., and he could not understand what was Province," and now Charles Hallock has meant. Shortly afterward, on the arrival of brought out a work on the same subject. the American mail, he received a number of This fact alone shows the interest which is letters from wholesale jewelry firms in New being taken in the hitherto almost unknown York, which soon gave him the cue as to region of Alaska. Rumors of the vast and what was going on. It was evident that unlocated riches of this outlying territory of some person was ordering goods under his the United States have been rife for years in name. He at once put himself in communi- our Western States, and these books are only cation with the firms in New York and else- an evidence of the interest which is now being where, and was soon informed that they had awakened. Excursionists, hunters, and traders

The orders were written on letter paper, at of the value of the land away from the seareading matter in the heading is an exact of difficulty, and no little danger. And yet copy of what appears on his business cards, the hopes of the discovery of mineral wealth, the scoundrel no doubt had secured possession the demands of commerce, and recently the "PEOPLE spend a great deal of money need- of one of them and had the letter-heads productiveness of the soil, have attracted not

best pieces from that English manufactory. The rest of the group consists of the Royal Worcester at the right of the Prometheus \$4 for the work. The proper thing to do if a

point on the American side; but all business done there by Brockville merchants, I am told, is known to custom-house officials here.

central station on account of the cost of wire, which must be increased in size as the square of the distance. This system, it is said, differs from others in that only a medium-sized conducting wire is neeeded even for a distance of about by means of a converter-and in the construction and application of this converter the innovation consists-through which is The Brockville, Ontario, Daily Times of passed the enormous force requisite for such a

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OUR NEW ALASKA.

Wealth of the Territory.

It is but a few weeks since the publication Francisco and Sitka, yet very little is known The following is a copy of a letter sent to present book depicts in exaggerated colors, the interior of Alaska holds out to the United States in the future. He pictures it as a'land not exactly flowing with milk and honey, but triginal shows the peculiar beauty of its hour, minute, and second when it stopped, ints and texture, and then a Crown Derby Then a jeweler can see just where the dirt tat has stopped the works lies, and can The second illustration exhibits one of those remove it by fastening down the main-spring dinton plates with an incised border that and taking off the balance-wheel. Otherwise is remove all the world have to chore all the world the perfect portrait of a maiden's he would have to chore all the world the perfect portrait of a maiden's he would have to chore all the world the perfect portrait of a maiden's he would have to chore all the world. As distance, it is one glowing mass of color. By cleaning all over, it is not likely that it would it the tall beaker-shaped bronze is justly have gone on again after stopping." ver's Sound. Farther to the north the coun-Draft on N. Y. will accompany goods re-turned. To avoid custom-house complica- try is almost entirely unknown, and yet, if tions you may ship to me at Redwood, Jeffer-son Co., N. Y. Morristown is the nearest as frigid as would be imagined. as frigid as would be imagined.

THE introduction of soap, it is said, is doing

Fig. 2 .- Minton Plate, Royal Worcester, Gen. Grant and other vases.

Then comes the Prometheus vase, that noble AN increased demand for cut diamonds, received orders from T. B. Steacy, Brockville, have become familiar with the routes now piece which all visitors of the Minton depart- which has been noticed for some time at Ont., for large quantities of goods to be sup-regularly traversed by steamers between San ment of the Centennial Exhibition must re- Amsterdam, is reported also from Antwerp, plied to Redwood, Jefferson Co., N. Y. member. It is of ovoid shape, thirty inches which is the principal rival of Amsterdam high, with a short neck capped by an orna- in the repairing of diamonds for the market. the top of which was Mr. Steacy's name, coast. Guarded by gigantic mountains which mental piece bearing the figure from which The workmen engaged in the trade have de- business, etc. As Mr. Steacy never uses any rise precipitously from the sea and by enorit takes its name. In color it is blue, a flawless cided to ask for a considerable increase of printed letter-heads, they could not possibly mous glaciers which fill the intervening valsection of the clear sky or the turquoise sea, wages, and they threaten a general strike if have been taken from his shop; but as the leys, the exploration of the interior is a work smooth and perfect. Around the base are this increase be not granted.

several serpents only too forcibly represented. The handles are sustained by masks in relief, and to them are chained mailed figures vigorously modeled. Surmounting all is Prome- lessly for having their watches cleaned," said printed somewhere in the States, as the paper a few adventurers to attempt to reclaim this theus bound to the rock, while the vulture, a jeweler the other day. "A gentleman called used is of a brand not on the Canadian market. forbidding wilderness. The author of the with extended wings, tears at his heart. The here one day last week and said his watch had quality of the coloring, paste, and glaze, the stopped unexpectedly and then gone on again Tiffany & Co., which we give as a sample of perhaps, the promise of vast wealth which simple severity of the body and the strength the same as usual. He wanted it cleaned, as the scoundrel's style of doing business. best pieces from that English manufactory. lose a train. Many jewelers would have taken MESSRS. TIFFANY & Co

vase, with raised flowers, which in the watch acts in that way is to take note of the of solitaire diamond earrings worth \$1000 original shows the peculiar beauty of its hour, minute, and second when it stopped. tints and texture, and then a Crown Derby Then a jeweler can see just where the dirt vase with Japanese figures.

Minton plates with an incised border that and taking off the balance-wheel. Otherwise perpetuates the perfect portrait of a maiden's ne would nave to clean all the works, not only. I am a stranger to you, but am long author "doth protest too much," but he has face. And there is a vase of Royal Worcester, knowing which particular part needed clean-established here, and have unencumbered real written a most readable account of the vast perpetuates the perfect portrait of a maiden's he would have to clean all the works, not incised, with four handles attached. The soft crimson, blue, and turquoise are commin-gled with the ivory body, so that, at a little in order. If the watch had really needed is only a trifle to pay for having his watch put is only a trifle to pay for having his watch put in order. If the watch had really needed is only a trifle to pay for having his watch put is only a trifle to pay for having his watch put in order. If the watch had really needed is only a trifle to pay for having his watch put is only a trifle to pay for having his watch put in order. If the watch had really needed is only a trifle to pay for having his watch put is participated with the ison present of the same participated with the same parti

CHECKED.

You Know."



prized, not only for elegance of form, but as THERE never was a time when the business being one of a pair presented to Mr. and Mrs. of the country was more open to new begin-Childs by General Grant. And then there is ners than at present. No one need hesitate, a Venetian glass, gilded in intricately fine for instance, to go into the stove business who order signed "T. B. Steacy." He did not, has gone up. The ladies of Jerusalem take all convolutions, so fine that the pair cannot now could secure a single wooden frame, a cupola, however, get the goods. Mr. Steacy had the the Parisian fashion journals, and know all be duplicated, and a Japanese vase, finished and a shed under which to put them. The goods shipped back to the firms who sent about the latest style of hairdressing. with all that care that marks the almond- great industries of 1900 are not yet started in them, and thus saved them from heavy loss. this country. There is nothing in the condition eyed artisan of the Orient.

various rooms opening into each other on the The man who can strike out into a new way hard to tell how much more there may be. first floor leading from the dining-room, includ- of doing and making things that the world ing one or two from the beautifully finished wants is in a way to succeed, but he must THE announcement comes from Buffalo that The latest reliable computation of the inhabitlibrary on the right of the hall and opposite make that which the world wants. the drawing-room. They are examples of that affluence of beauty which has blossomed out of the love of home, fostered by favorable those virtues which ennoble humanity.

pitals for the poor.

Mr. Steacy's, and the writer must have in the site of ancient Shechem, and the people some way obtained possession of his writing are beginning to use it on their persons instead in order to have practiced it and made so of trying to eat it, as they did at first. Along accurate a facsimile. So far fifteen firms with the introduction of soap other reforms have been heard from as having received are going on. Bethlehem has been rebuilt, orders from the impostor, They are: Smith and the streets are lighted with gas. Cesaraea & Knapp, Theodore B. Starr, Mulford & Bom- is having a building boom, Nazereth is becomnett, F. Quinch, Bryant & Bentley, A. H. ing the headquarters of big olive oil speculators. Smith, Tiffany & Co., A. W. Sexton & Son, Corner lots in Joppa are going up with a rush, Adolphe Goldsmith, R. H. Dumbleton, New and real estate in Mount Carmel is largely held York; Biglow Kennard, H. B. Dwight, Bos- by speculators for an advance. All around ton; Booz & Co., N. H. Sheafer, Philadelphia. Shechem there is a lively demand for good Mr. Steacy promptly communicated with soap-fat, and the sleepy inhabitants of Ramoth the express and station agents at Redwood, Gilead think of building a glue factory. and ordered them not to deliver any goods Jerusalem is waking up also. It has a street that might come there. On Thursday he cleaning bureau, big clocks on its public buildwent to Redwood, and found that some one ings, and its suburbs are being built up rapidly. had been there for the goods, presenting an Even in the vale of Gehenna the price of land The value of goods ordered, as far as heard THE population of the entire world is esti-

a new electric light has been tried there, and ants of China is that of Mr. A. E. Hippesley, that it has solved the problem of long-distance of Shanghai, which places the population of lighting, hitherto so troublesome on account of China proper at about 250,000,000. To this THE money wasted in causeless and fruitless the loss of power as the distance increases. must be added 31,699,000 for the territories conditions, through energy, loyalty, and all strikes would build and maintain several hos- Other incandescent systems now in use cannot and Corea, bringing the total population of light further than three or four miles from the the empire up to 281,699,000.

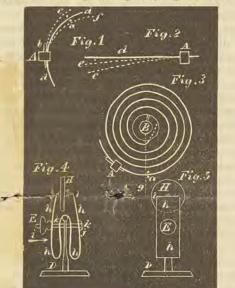
T. B. STEACY. much to civilize the people of the Holy Land. The signature bears a close resemblance to A large soap factory has been established on

These articles of vertu are selected from the of trade to discourage the youth of to-day. from, is between \$40,000 and \$50,000, and it is mated at about 1,424,000,000. The so-called census returns of Chinese officials are generally regarded as utterly untrustworthy.

BY OUR WATCHMAKER.

NO. IV.

For those who are not professional springers the best course to pursue is to pin in the hairspring so that it will have to be taken up once. This is better than to have to let it out, as all bendings are injurious to fine results. In pinning in a hair-spring it is usual for the spring to straighten a little, so that the outer coil at the point where it lies in the regulator pins is thrown outward, as shown in Fig. 1, where A represents the hair-spring stud, and d the outer coil of a hair-spring. The full line at d, d, shows the natural curve of the coil; but as soon as we put in the pin, b, and force it home, we find the coil has assumed the form shown at the dotted line, c. To remedy this we bend the spring where it enters the stud, until it assumes the natural curve. Here a fact presents itself which must constantly appear in all manipulations which require bending a spring. Suppose we bend our spring inward, so that it lies free between the curbpins at α . Now, if we put this spring into action in the watch, in a short time we will find the spring tending toward the outer pin. To illustrate, we will consider Fig. 2, where A represents a stud, and d a short piece of spring (hair-spring or mainspring; all are subject to the same laws). We bend it so that when at rest it assumes the form shown at c. If we set the spring to vibrating by any means, say gently tapping it with the finger, or in any manner, for even a short time, if let come to a state of rest, it will lose a portion of the bend we gave it and assume an intermediate curve, as shown at e. Consequently, in bending our hair-spring for correction of the straightening at c, Fig. 1, we must



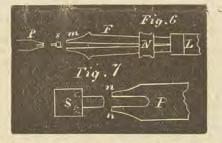
make the bend at A in excess; i. e., we should first bend the spring to about f, Fig. 1, then bend outward again until the spring stands hollow drill, P, can be put into a small History. It was found in India by a wooden-Mrs. Potter looking especially lovely in a dress at d. Just how much to bend d toward f can suitable handle and twirled with the thumb spoon seller, and brought to Raspoli, the of pale pink crape. Madame Rute, the oncebe told only by experience, as it depends in a and finger to undercut the screw-head, or it Roman jeweler. He sold it to a German prince, famous beauty Madame Ratazzi, occupied one great degree on the temper of the spring.

bends in hair-springs in excess, from the fact been removed from the screw, S, we return it The Baroness Burdett-Coutts possesses a pair in white satin, with a diadem of turquoises that when we come to making the bends for a to the balance and test again for poise. Breguet hair-spring we must meet this pecul- The object in pinning in a hair-spring, as sian family has had for two centuries a like an old tragedy queen than a lady of Imiarity in full force, although in the present shown in Fig. 3, is to facilitate the adjustment sapphire weighing 100 carats, and for which perial blood. She wears immense masses of instance it is of quite as much importance, to isochronism (pronounced i-soc'-ro-nism, with one of the Rothschilds offered \$300,000. In false black hair, falling in a thick mane down arc regulator would not correct.

screws are those with longer threads, which box, wrap the box in a piece of rubber cloth, one of which weighed fifty-three carats; while HAIR-SPRINGS AND SPRINGING. screws are those with longer threads, which bod, map the out and place the watch in a refrigerator. If, on a chalice and two censers, belonging to the are left so that they can be screwed in or out and place the watch in a refrigerator. If, on a chalice and two censers, belonging to the to bring the watch to time without moving taking it out, we find the watch has lost time, Cathedral of the City of Mexico, are ornathe regulator. In many watches there are or rather fallen off in its rate, we know it is mented with one hundred and seventy-six four of these screws. In this case they are over-compensated, and proceed to change a rubies, on which, it is said, the Church dare called quarter-screws, and are also used in ad- pair of screws from near the cut end of the not put even an approximate value. In the justing the watch to position. This subject compensating segments to a point farther Odescalchi Museum there is an engraved ruby will be further considered when I come to toward the balance-arms. After such change, showing Ceres holding a grain of corn, and speak of adjustments.

When putting in a hair-spring, as shown should gain in the cold box, we know the leans, is cut in the shape of a heart, on one in Fig. 3, we should select one of as near the watch is not sufficiently compensated, and side of which is engraved a head of the Greek proper strength as possible, and avoid the change a pair of screws from near the balance- type. The stote is called spinel ruby, the Balas errors shown in Fig. 6 in last month's KEY- arms to near the cut end of the segment, con- variety having a violet or rose tint, although STONE. If, on trial, our watch gains, add a tinuing the changing and testing until the the types vary, and have been found white, pair of screws to the balance, regulating the watch has the same rate in all temperatures. and even bluish-gray. The primitive form of weight of the screws so as to bring the watch The writer has had a good deal of experience the Oriental ruby is that of six-sided prisms, to time. A box of time-screws, both gold and in adjustments, and he in all candor advises while that of the Balas and spinel is, like the brass, of all weights, should be kept, so that the ordinary watch repairer to let the problem diamond, octohedral. Rubies have been sucwe can bring a watch to time quickly. After of isochronal and position adjustments alone. cessfully imitated, but the spurious ones are changing screws we should test a balance for If you have a very fine watch and are suspi- easily detected. The monster ruby of Charles poise. A convenient form of poising-tool is cious of the adjustments, and your customer is the Bold, set in the middle of a golden rose shown at Figs. 4 and 5. It consists of a strip willing to pay for their correction, send the for a pendant, which was captured by the of spring metal about 4 inches long and 1 inch watch to some reliable workman who makes a Bernese after his rout at Granson, turned out wide, as shown in Figs. 4 and 5. This strip of specialty of such work, and my word for it you to be false. metal h is bent as shown in an edge-view in will make more money than you would in fit-Fig. 5, and a side-view as if seen in the direc- ting yourself to do the job. A few years ago tion of the arrow i, in Fig. 5. The strip h every snide watch butcher was an *adjuster*. after bending is mounted on a stand as shown No matter if he could not put in the simplest at D, Figs. 4 and 5. The upper edges of part of a watch in a nice, workman-like manh, h, are thinned down to a dull knife-edge at ner, he could buzz about heat and cold, isoch. the first performance of M. Paladihle's new l, on which the pivots of the balance are ronism, and position; talk about dial up and opera of Patrie at the Grand Opera, the soallowed to rest when testing the balance, H, dial down,-indeed, all the positions,-and yet called dress rehearsal, given for the benefit of for poise. In order to adapt it to different could not produce a really round pivot or put the sufferers by the recent French inundations. lengths of balance-staffs, the screw, k, and on a hair-spring that he or the father of I do not think I ever saw so brilliant an nut, E, are provided, which operate to open evil could adjust to anything. The adjust- audience assembled in that superb theatre. All and close h, h. The edge, l, Fig. 5, when the ments to fine watches involve no secret rite or the ladies present were in full dress, and the stand, D, sets on the bench, is quite level, and a trick that the adjuster could, if he would, im- display of gorgeous toilettes and of splendid if the two pivots are laid on the edges, l, l, Fig. 4, part to any and all; it is a thorough knowledge jewelry was really dazzling. Mme. de Furtado as shown, the heavy side of the balance will in- of the means at his disposal to accomplish re. Heine, who occupied a box near where I sat, stantly turn downward, and after a few oscil- sults. To illustrate: Two adjusters have each looked as though she had walked out where it lations come to a state of rest with the heavy a watch which loses in the long vibrations. was raining diamonds and had neglected to put point down. In all compensation balances the One makes a change in the terminal bend of a up her umbrella. Her dress of pale silver-grey corrections for poise must be done by the Breguet hair-spring, the other changes a pair satin was trimmed with draperies formed of a screws. To do this in a workmanlike manner of brass screws for a pair of platinum ones of network of fine chenille of the same color,

pin-slide, shaped as shown at F, Fig. 6. The result by different means. end, m, is made to grasp a balance-screw and remove it from the rim of a balance without disturbing the other screws. The pin-slide, F, is also intended to hold the balance-screw, s, until the hollow drill, P, undercuts and Value of some most noted Sapphires and covered with an arabesque embroidery in collightens the screw-head. This will be understood by inspecting Fig. 7, where the balancescrew, S, and hollow drill, P, are shown magnified. The edges, n, n, Fig. 7, are cut into which does not have its history and its pedi-



(P) can be put into a split chuck of an Amer- who, in turn, parted with it to Perret, a Paris of the first tier boxes with her young daughter, I have dwelt somewhat at length on making ican lathe. As soon as we think enough has jeweler, for \$31,000. It weighs 133 1-6 carats. Mlle. Isabelle Koma Ratazzi. She was dressed

test for poise. If, on the other hand, the watch another, in the collection of the Duke of Or-

POINTS FROM PARIS.

Extract from Correspondence of Mrs. Lucy H. Hooper.

On the evening of December 12th took place we need two special tools : First, a long-nosed the same weight. Both accomplish the same sparkling with large, flat imitation diamonds, a peculiar but most effective and novel style of trimming. Another dress had the train and low corsage of black velvet embroidered all over with large tulips in their natural hues, the skirt front of cream-white satin being ored silks and beads. The very short sleeves, There is scarcely a piece of precious jeweling der to the elbow, were cut away over the arm so as to leave merely a wide band, at the lower teeth either with a graver or fine file. The gree. Of that glorious gem, the sapphire, end of which was set a leaf-shaped ornament which the Greeks dedicated to Apollo, there in diamonds. Mrs. Mackay occupied the loge are three species-Brazisian, Oriental, and between the columns on the grand tier. She water. Looking at an Oriental stone through wore a corsage of dark-blue velvet spotted with a microscope, myriads of celiated lines or pro- gold, cut square, and with half-long sleeves, jections horizontal to the plane of the stone and adorned with draperies of point lace. The can be seen. They are lengthened vacuities skirt was in white faille and lace. Around accidentally left in the structure of the stone her throat was clasped a necklace composed of at the time of crystallization, and the light three rows of large and very beautiful pearls, striking upon them produces the effect of a Her guests of the evening were the Count and white star. One of the largest white sapphires Countess Dillon, Mrs. James Brown Potter and known is in the Paris Museum of Natural Miss Urguhart, and Mrs. and Miss Winslow, of sapphires valued at \$140,000. A noble Rus- and diamonds, and looked very much more

spring is pinned into the collet comes exactly bother further than to pin in as directed and exceeds even the diamond in worth and beauty. "The best watchmaker in the world." "Comopposite the point where the outer coil is bring the watch to time, trusting to average It is harder than any other known substance petition is the life of trade," and so it proved pinned into the stud. In practice, however, results. We will suppose a man brings in a except the diamond, which alone among prec- in this instance, because a third watchmaker the point of inner attachment comes opposite watch and it requires a new hair-spring. ious stones it will not cut. It is susceptible of established soon after between the two, who the regulator pins, as on the dotted line, g. Now, if you get a dollar and a half out of him electricity by friction, retaining it for some eclipsed both of them by modestly stating him-Fig. 3. I have shown only four coils here, you will do well; but you talk to him about hours, and also possesses double refraction in a self to be "The best watchmaker on the street." but in actual practice we should never use a fifteen or twenty dollars for adjustments, and slight degree. The finest variety of rubies hair-spring with less than ten or twelve coils. he will put you down for a swindler, and yet comes from Peru, although the Burmese mines If a close-coiled spring is used, the latter the mere adjustment to isochronism would be have long been famous, and one of the Bur- and will have before long, a national banking number of coils is the best. When a hair- worth nearly this sum of money.

spring is pinned in so that the points of Very few watchmakers know exactly what at \$60,000,000. In 1777 the Czarina of Russia United States, by which all the notes will be attachment come opposite as shown, of course is meant when a watch is marked adjusted. was presented, by Gustav III., of Sweden, issued and guaranteed by the Government. we cannot take up or let out a hair-spring to In nine cases out of ten it simply means an with a ruby the size of a pigeon egg, which is Such notes like the American Government bring the watch to time, but must add or take approximate adjustment to heat and cold. still among the crown jewels in the Russian currency would pass at par not only in Canada out screws from the balance until we bring This adjustment is very simple. It is accom- treasury; and among the crown jewels of but in any part of the United States, and the watch to approximate time, then regulate plished by changing the balance-screws in France was a ruby, cut into the form of a would do much toward helping our internaby the mean-time screws in the balance. I pairs. We will suppose we try our watch for dragon with outspread wings. The Duke of tional trade, as also the free exchange of goods would beg pardon of those who know, to say temperature. We first get at its rate in a room Brunswick, whose passion for jewels is well between the various provinces of the Do-to those who do not, that the mean-time of, say, 75° F. We then put it in a tight tin known, had two exquisitely engraved rubies, minion."

because, if we put in a spring and timed our the accent on the second syllable). This means form it is flat oval, being about two inches her back, and over one ear she had stuck a watch by the second hand, we might in the equal time, and with a spring which is truly long by an inch and a half wide. It is cut tea-rose, which formed a queer combination early action of the spring get correct results; isochronal it makes no difference whether the slightly en cabocbon on top, and into a multi- with her jewelled crown. Mlle. Ratazzi is a but after a time the tension of the bend re- balance turns one-third of the way around, or tude of small facets beneath. Its hue is per- very pretty brunette, with large dark eyes and laxes so that our hair-spring would rest con- makes a full revolution at each vibration; the fect, being a warm lustrous Marie Louise blue, a piquant cast of feature, looking a good deal stantly against the outer curb-pin, and the vibrations are performed in equal time. The not so dark as to show black beneath the gaswatch develop a gaining rate that a short theory is, that each coil of a flat hair spring light, but having all the velvet softness and daughter. has an isochronal point when the number of purity of tint that are required in a really fine

We have now carried the process of spring- coils exceeds ten, some say twelve, and that gem of this description. It is mounted to be ing from the selection of a spring to the point is nearly opposite the point at which it worn as a brooch, being surmounted with large who, on opening his shop in one of the streets vibrating, and pinning into the stud, and the is pinned into the collet. Consequently, if we diamonds of twenty carats each, while the pen- of Paris, "hung out his shingle," on which he instructions given apply to most foreign pin in our hair-springs on this principle, we dant is composed of a large pea-shaped modestly advertised himself as "The best watches and some American; but within a have made a near approach to the isochronal sapphire, weighing sixty carats and set in watchmaker in Paris." Shortly afterward a few years a system of springing has come point of that coil. This is undoubtedly true; diamonds.

(To be continued.)

GLITTERING GEMS.

Rubies.

mese princes has in his possession a ruby valued system, something similar to that of the

THE story is told of a French watchmaker competitor established himself in his neighborinto vogue called pinning in, on the line of but there are so many factors involved in the The true ruby or red sapphire is said to be hood, who, not desiring to hide his light under attachments; that is, when the balance is in problem of isochronal adjustment that it will the most valuable of all gems when of a large a bushel, sought to excel the former, and ana state of rest, the point at which the hair- hardly pay the average watch repairer to size, good color, and free from fault; so that it nounced himself in gold letters on his sign as

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WANTED-A CHRONOMETER WATCH, SILVER OR gold, stem-wind preferred Must be cheap and in fair order. Address, with full particulars, JEWELER, Lock Box 196, Little Falls, N. Y.

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WATCHMAKER WOULD LIKE TO KNOW OF A some opportunity or opening to start business. Would pay for valuable information, or would buy out a small stock to secure a good location. L., this office.

W ANTED TO BUY-A CHEAP SECOND-HAND lathe, in good erder, with fixtures attached. Will pay cash. Address T. J. SMALL, Wrightsville, Pulaski Co., Ark.

WANTED-A PILLAR CLOCK FOR THE SIDEWALK. Address, stating maker's name, and lowest price, A. WRIGHT, 62 E. Fourteenth street, New York City.

WANTED-THE PRESENT ADDRESS OF C. A LAWSON, who made inquiries in the December KEVSTONE concerning the tools necessary to pivot Swiss watches.

WANTED- A FAIR WORKMAN, ENGRAVER PRE-ferred. Salary moderate, but position permanent. Refer-ences required. W. H. MILES, Belle Plain, Iowa.

WANTED-STAKING AND DEPTHENING TOOLS; roller remover, and an American lath^a, cheap. Have some verge lathes for sale. W. T. HARRISON, Williamstown, Ky.

WANTED-ANY ONE KNOWING OF A GOOD OPEN-ing, or having a small but well-paying jewelry business for sale, can hear of a buyer by addressing C. F. BALDWIN, 77 Main street, Lockport, N. Y.

WANTED - NUMBER 7, VOLUME 1, JEWELERS' Weekly. Will pay 15 cents for this number, if in good condition. J. H. WEIDMAN, Riverside, N. J.

WANTED-A SECOND-HAND AMERICAN LATHE, with Swiss slide rest Give list of other attachments, and the cash price. Box 193, Defiance, Ohio.

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SEND ALL WATCH REPAIRING WHICH YOU CAN-not find time to do yourself to CHAS. E. BILLINGS, 71 Nassati st., N. Y.

WANTED-JOBBERS AND MANUFACTURERS OF jewelry to keep me posted in bargains in their line. Spot cash paid for any approved bargain. J. W. SCHRIMPF, watch-maker and jeweler, Spirit Lake, Iowa.

FOR SALE OR EXCHANGE—A 50-INCH COLUMBIA bicycle (Standard), also a breech-loading shot-gun, 12 bore. Will exchange for an engraving machine or fixtures for Hopkins lathe. A. G. DAMAN, Leetonia, O.

they ever saw
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FOR SALE OR EXCHANGE—AN ALMOST COM-plete file of the "Scientific American," from 1873 to date, 32 volumes, some of them bound. Also "Jewelers' Circular" from 1880 to date, in good condition. Will sell to best bidder, or ex-change for a rounding-up tool or attachments for the American lathe, such as slide-rest and rounding and milling tools. Box 216, Kennet Sourae. Pa. Kennet Square, Pa.

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FOR SALE, AT A BARGAIN—AN OLD AND PAYING jewelry business. Invoice \$1200 to \$1600. Reason for selling ; have other business. Also a fine 5-feet walnut silverware wall-case. I rolling mill. Those meaning busi-ness address H. E. TAYLOR, Bloomington, Wis.

HELP WANTED.

WANTED-A FIRST-CLASS WATCHMAKER AND W jewelry repairer (one who can ergrave preferred). Good salary and permanent situation to a good man. Must have good references. E. P. LEDOUX, Box 492, Silver City, New Mexico.

WANTED-IN DIFFERENT CITIES OF THE U.S., reliable agents to represent a New York house for selling imported and domestic jewelry by samples. Only parties able to give the best references need make application. L. M. G., this offere

WORKMAN WANTED - WILL GIVE ONE-HALF the net profits in bench-work and sales, to a good watch-maker and engraver. Stock Stoo. Good trade. References required. W. D. OGDEN, Franklin, N. Y.

WANTED AT ONCE-A FIRST-CLASS WATCH-maker and jewelrv jobber. Situation will be permanent to the right man. None but a man of good habits and references need apply. O. B. Loose, Lexington, Va.

WANTED-A WATCHMAKER. SINGLE MAN PRE-ferred. Steady job and far wages. C. C. AZBELL, Vin-cennes, Ind.

WANTED-A WATCHMAKER, WHO IS A STEADY man, and can do good fair work, one who can engrave preferred, and who wants a permanent situation at moderate salary in an lowa town of 2300 population. Best references required as to character. Address stating salary, X. Y. Z., this office

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 FOR SALE OR EXCHANGE-FOR A JEWELRY OR grocery store, improved farms in Eastern Iowa, or one improved farm and unimproved land in Nebraska. Stacy & BLAKESLEG, Anamosa, Iowa.
 FOR SALE - JEWELRY STORE IN CENTRAL NEW York doing a good business. Will sell either stock and fixtures, or will sell the fixtures separately. A good opportunity for a young man with small capital. Reason for selling : wish to seek another climate. H, A. WILLIAMS, DERUYER, N.Y.
 WANTED-SITUATION BY A WATCHMAKER AND references. Is not an engraver. O, F. P., this office.

 COR SALE - A WATCHMAKER AND CONSTRUCTION OF A SALE - A WATCHMAKER AN

GRAND OPPORTUNITY – FOR A GOOD, WIDE awake man. For sale, a first-class jewelry store, or two stores in two of the best manufacturing towns of the state of Ohio, only 4 miles apart. One has 5000 population, and the other 8000. These towns contain the largest and best factories in the state. For information and terms address ENTERPRISE, this office.

WILCOX, Somerton, Ohio. WANTED TO TRADE-A HOTEL FOR \$4500 WORTH of watches, clocks, and jewelry. Hotel is good renting property, and fast doubling up in value. J. W. SCHRIMPF, Spirit Lake, Iowa. FOR SALE, AT A BARGAIN-AN OLD AND PAVING jewelry business. Invoice \$1200 to \$1600. Reason for store in a city where 1 can enlarge my business. Only those having the cash and meaning business need answer. BUSINESS, NEL, New Bethelm, Clarion Co., Pa.

FOR SALE - I NO. 2 HOPKINS LATHE, HARD, and fixtures, consisting of: patent chucks, A and B. 1 swing calliper jeweling tool and lathe-stock combined. I pivot polisher. 1/2 cement chuck. I coolrest. I centre chuck. I plate for chuck. I counter-shaft and belling. I swing foot-wheel, foolls. All in good order. Good as new. In use 2 years. Will take s65 cash. B. M. BALL, Box 254, Clarksburg, W. Va.

Sog cash. B. M. BALL, Box 254, Clarksburg, W. Va.
 FOR SALE—2 JEWELER'S SAFES. T MOSLER & Bahman. Double outside and inside doors. Inside measurement, 22 x 40 x 15 inches. In use less than 2 years. Toetroit single outside and inside doors. Outside measurement, 34 x years ago. Cheap for cash. Reasons for selling: have purchased another store. T. R. STALEV, Pittston, Pa.
 FOR SALE—JEWELRY AND WATCHMAKING BUSI selling. Cash sales. Fine locality. Good living accommodations. Low rent. Everything first class. Get best prices. Owner has throat trouble and leaves for California. Party with a few thousand dollars can make terms by investigating. W. PARKER, at Groveland Court, Chicago.

5

A YOUNG MAN 10 YEARS OF AGE, WELL QUALI-fied in the optical business, would like to take a situation in a jewelry store to attend to the optical department. In part pay, would learn the watchmaker's business. Can adjust glasses correctly for asticmatic trouble, and impaired eye sight. D. M. SCHWAB, Optician, Trenton, N. J.

SITUATION WANTED-BY YOUNG MAN 19 YEARS of age. Has had 2 years' experience at the bench at watch, clock, and jewelry repairing. Minnesota preferred, Address stat-ing salary and p rticulars, C. F. LEWIS, Spring Valley, Minn.

WANTED-A SITUATION TO TAKE FULL CHARGE of bench. Can do all kinds of works to be to be W of bench. Can do all kinds of watch, clock, and jewelry repairing. 17 years at bench. 38 years old. Small family. Best reference. Full set tools. Good American lathe. Terms reason-able. Jas. E. Ginns, Box 34, Jonesboro, Tenn

WANTED-BY THE FIRST OF FEBRUARY, A position. Can do watch and jewelry repairing, also make new jewelry and refine old gold. Can give good references, and have been five years in the business. S. M. M., Box 742, Hazleton, Pa.

WANTED-SITUATION BY A WATCHMAKER OF over 30 years' practical experience at the bench. Have a fine set of tools, including a No. 1½ Whitcomb lathe, and fixtures. Age 45. Married. First-class reference given and required. Salary not less than \$t8 per week, PRACTICAL WATCHMAKER, Box 353, Owosso, Shiawassa Co., Mich.

Character read by tell-tale marks on the Hands

Cheironomy is the science of the formation of hands, the general structure and peculiar developments indicating mental traits and caprices. On the basis of structure, hands could be divided into six groups-short, spatulate or blunt-tipped, tapering, square, thickjointed, and symmetrical. The short, thic hands are found generally among the Northern nations, more especially in Iceland and among the Esquimaux. They indicate coarse, brutal ideas, stolidity, and lack of imagination. The Washington
 FOR SALE—SMALL JEWELRY STORE AND FIX-tures. Will invoice store in town. Water, natural and manufactured address 3608 Butler Street, Pittsburg, Pa.
 FOR SALE—A FIRST-CLASS JEWELRY STORE IN Colorado. Will address atom of specified and the store in town of specified and the set mining camp, a town of specified and the tanger in the store in town. spatulate hand, with blunt fingers, shows

AMERICAN WATCH TOOL COMPANY, Waltham, Mass.

Lead All. 598 Sold in 1886.

Whitcomb Lathes

FOR SALE—A WATCHMAKER'S STAND IN ONE OF the liveliest villages in Michigan. Established 14 years. Lot and huilding, \$1200. Tools and fixtures if desired. Also "American Horological Journal" vols. 1, 2, 3, and 4, bound in oue(\$to, worth \$20), and Sabin & Son's" Monogram Alphabet," \$2.50, cost \$6. O. S. POND, Flushing, Mich.

FOR SALE, CHEAP-GOOD JEWELER'S SAFE. ONE door. 2500 lbs, 2 years old. Cost \$125. FRED. STECHER, Zumbrota, Minn.

this office. RARE CHANCE-BIG BARGAIN. MUST BE SOLD by March 15. The largest and leading jewelry store (established to years) in a town of 80co inhabitants. Situated in the centre of the anthracite coal regions. Good trade from 13 small towns within a radius of 3 miles. Fine store room. Brick corner, 2 large plate windows. Heating furnace in cellar. Electric light and gas. Opposition light, only 2 small stocks, in town. Repairing for 2 at best prices. Stock and fixtures will invoice about \$6coo. Stock consists of about 140 gold and silver watches, silverware, jewelry, clocks, and spectacles. 6 6-feet silver-mounted counter cases. 1 7-feet tower cases. 1 15-feet walnut wall case. 1 6 6coo-lb. Marvin safe, 70 inches high and 42 inches wide. Stock can be reduced to suit. Address M. I. GOLDSATTH, 36 Fifth Avenue, Pittsburgh, Pa., or J. W. HUBER, Ashland, Pa. TOR SALE - NO C HOPPUNG AUMONG AND SOLD

cash paid for any approved bargain. J. W. SCHRIMPF, watch- maker and jeweler, Spirit Lake, Iowa.			energy of character, and is found chiefly among northern races. The lecturer had seen
CHAS. W. HOPKINSGOLD, SILVER, LETTER, and ornamental engraver. First-class work. Lowest	FOR SALE.	the largest towns in Count, \$500 cash will buy it. A. M. E.	
street (Room M), Boston, Mass. FOR SALE-AT 20 PER CENT. DISCOUNT, WATCH- maker's and teweler's materials, optical goods, silk guards,	FOR SALE-SMALL JEWELRY STORE AND FIX- tures. Will invoice \$1000. In a city of \$200. Only one other store in town. Water, natural and manufactured gas in the house. Have another store, the cause for selling. Address 3608 Butler Street, Pittsburg, Pa.	ante in Colorado. Will sell fixtures silverware and chuchs	Zealand. The tapering hand is the sign of an instinctive artistic taste, a sort of Bohemian, not strong, but brilliant, erratic mind, and
Swiss tools, etc. Prices can be taken from any dealer's cata- logue. Satisfaction guaranteed. CHAS: D. HAWKINS, 671 Eight Avenue, New York City.	high, and I small Seth Thomas regulator, I K. & S. lathe.	Colorado.	poorly developed logical faculties. The square hand, with short thumb, and well-grown lower
	r fine Jathe-wheel. A full set of manufacturing tools, watch- makers' tools, material, etc. Also a fine watch-signs, jewel- ing-tools, etc. Any or all of the above goods will be sold very cheap. Watchmakers and jewelers needing anything in that line will do well to look into this bargain. Address L.C. EAVEN, are North Sixteenth Street, Omaha, Neb.	To copartify the other for safe for the next unity days, our jewelry business, stock and fixtures. Do not apply unless you have \$6000, spot cash. For further particulars, call on or address UPHAM BROS., 65 East Third street, St. Panl, Minn.	joints, is that of an orderly, systematic, un- sympathetic man. Many rogues have this hand, an ugly one on the whole, and poor to
WORTH \$5ON RECEIPT OF 25 CENTS I WILL send to any address a receipt that will positively preserve the color of the most delicate stones or pearls, while hard sol- dering rings or other jewelry, without removing set. J. L. ACKERMAN, Lowell, Ind.	FOR SALE – UNIVERSAL HEAD, SLIDE REST (three slides), countershaft, all new, for Whitcomb 132 lathe. Wanted, Spencer's ophthalmosvopic test lens machine. Correspondence desired. Address J. M., care F. D. McDowell, Salem, Oregon.	A GOLDEN OPPORTUNITY-FOR YOU TO STEP into a big-paying jewelry business. Engaged in other busi- ness, Will sell our jewelry store in town of 2000 population, in Wisconsin. County seat. Only one other store in the county. Doing a good paying business. Beautiful location. Don't write unless you mean business, and have a thousand dollars in clear cash. State distinctly, what you can do-when you can do it.	show, but an exceedingly useful and practical one. The thick-jointed hand is also an ugly one and is shining and thick in the palm. It is the mark of an analytical mind, with both
DON'T SEND NOW, BUT WAIT UNTIL THE OCCA- sion arises when you can see just how you might have saved a quarter and kept your customer. Then send 25 cents for a per-	F watch business. No stock. All ready for work. Good	Will reply in like manner. Stock is clear and fresh, and will invoice \$3000. STRICTLY BUSINESS, this office.	
a quarter and kept your customer. Then send 25 cents not a per- fect cement which will make open-face crystals dust-proof. Also emble you to rurn out a good job when glass that you can just force in is loose, owing to undercut of bezel, or when your near- est size is a triffe small. CHAS. WENER, Hackettstown, N. J. FOR SALE CHEAP OR EXCHANCE-3 6-02. FAHYS	address with stamp, J. ENDER, Gaines, Ga. FOR SALE-HALF INTEREST IN A GOOD JEW- elry store. Partner a practical man. Location one of the best towns in Illinois. Partners desiring to make a change will	FOR SALE-JEWELRY STORE IN A LIVE MANU- facturing town of 3500 inhabitants. 40 miles from New Haven. Good run of bench work. No opposition, Che p rent, Will invoice about \$1000. Will bear thorough investigatian. Only those with cash aud meaning business need apply, to whom full particulars will be given. G. F. E., this office.	also a large degree of self-esteem. The sym- metrical hand is that of an idealist, with long, smooth, thin fingers, the most beautiful one of
f Htg., K. W., 18-size silver cases, albata cap, 2 gold joints, 1 silver joint. 1 8-air music box, zither and bells, fine inlaid case, bronze handles. 1 set (6) coin-silver table-forks, engraved handles. 1 diamond lace-pin, 15 stones. Very fine. Will sell or	FOR SALE-IN A CITY OF 85,000 INHABITANTS, an elegant stock of clocks, watches, and jewelry, with tools, material, and fixtures. An excellent paying trade established Located on the best business street in the city. Good room and	FOR SALE—A LARGE WALNUT WATCHMAKER'S work bench. 30 drawers. Space for an American lathe, foot-wheel, and counter-shaft. Cost \$120. Will sell for \$50. WM. STRAUSS, 1128 Light street, Baltimore, Md.	hands of course do not come under any one
ALL WORKMEN WHO HAVE OLD CLOCKS TO A Clean will appreciate this. On receipt of one dollar I will send printed instructions how to thor ughly clean the dirtiest and greasiest old clock movement without taking it apart. A workman can save much time by its use. I can clean thoroughly a nickel alarm in five minutes. The material used can be had in any drug store for ten cents, and will last to clean fifty clocks. THOMAS B. STHEMENSON, Canandaigua, Ontario Co., N. Y.	limited capital. The business has paid \$2000 above expenses for the year. The stock, etc., will invoice about \$2500. Only those having the cash need apply. This is the liveliest and most extensive manufacturing town south of the Ohio River. Change of business, reason for selling. W. C. STULL, 155 Union street, Nashville, Tenn.	small stook of silverware and clocks. Also fatures, 3 good show-cases. Good work bench. Hanging lamp. Watch sign, etc. All for \$200, 1 Hall's steel-lined burglar-proof safe. Cost \$257. Will sell for \$150, cash. No opposition, Splendid chance	of these divisions. They have the marks of two or three classes, and are put together as mixed. They are harder, of course, to decipher
50 CENTS IN POSTAL NOTE OR STAMPS SENT TO W.S. L. FREAR, Manufacturing Jeweler, Union Springs,	York City. Will reduce stock to about \$8000. For further particulars, address M. K., this office.	SITUATIONS WANTED.	acter. Short fingers stand for impulse, tact,
prepared flux, a new discovery for gold and silver soldering,	FOR SALE-ON VERY REASONABLE TERMS, A first-class jewelry store in a flourishing city in Western New York. Population, 15,000. Railroad and commercial centre.	SITUATION WANTED-BY A FIRST-CLASS WATCH- maker. In Ohio if possible, but elsewhere if need be. 24 yers of age. Worked at trade 11 years. GOOD WOKK, this office.	and readiness; long ones for a passion for detail and finish. All designers of colossal work have small hands and short fingers. A well devel-
lady in the land wants one.	Dickness the only reason to sening. white outlines, this only.	WANTED-SITUATION BY YOUNG MAN 25 YEARS old. First-class watchmaker. 11 years' experience. Anywhere in the U. S. COMPETENT, this office.	oped upper joint shows a philosophical mind, a well-developed lower one, strong sense of
gem pivoting chuck, with attachments. i each, taper and screw chucks. 4 cement brasses. 4 steel tapers. i round chuck stand and 4 feet leather cord. i genuine Hall's improved stak- ing tool, with 46 punches and 14 stamps. i set Anderson's ieweline setting cullers, with chuck to fit lathe. r pair Thomp-	FOR SALE, CHEAP-AN INVOICE OF JULIUS King's Boss and No. 76 spectacles and eye glasses. Also colored, bif.cal. etc. In all \$55 worth. Will sell ½ off. For particulars, address Jos. S. B. Swarn, Lafayette, Ind COR SALE-JEWELER'S BENCH, WITH A FOOT-	WANTED-SITUATION BY YOUNG MAN 22 YEARS of age, to act as traveling salesman or advertising agent for some good firm handling light goods. Have traveled some west of the Mississippi River. Good habits and references. W.	arrangement, deduction, and order. Smooth fingers indicate fastidiousness and softness of feeling; rough ones, reason and scientific correction. Fingers which fit along temptage
son's callipers, in case. 1 set 31 drills in sockets, made from stubs steel. 1 arbor chuck for holding laps, saws, etc. These tools are all new, never in use. Cost \$55. Will sell for \$70. Crass D Hawkins, 671 Eichth Avenue. New York City.	FOR SALE-JEWELER'S BENCH, WITH A FOOT- wheel. Size 4832 x 23. Height, 35. 79 drawers-9 to each side and one in middle, all locked. Doors each side. Solid black walnut top. Was made to order. Price, \$t3. E. A. KUNKEL, Waterbury, Conn.	I tion as watchinaker and jeweler. Can do Engraving.	capacities. Fingers which fit close together show avariciousness; the loosely fitting ones belong to the too inquisitive and tale-bearers.
THE MYSTERY EXPLODED-DEMAGNETIZATION of watches made easy to every watchmaker. On receipt	FOR SALE-IN BOSTON, MASS., A WELL-ESTAB- lished watch, jewelry, and optical business. Established	and an a good selesman. Good references. WATCHMAKER, Box 252, Shelbyville, Ind.	Most egoists have white, colorless, cold hands. A large thumb is a mark of originality; with a
entitled "Magnetism Explained," with a list of substances that are magnetic and a list that are non-magnetic, invaluable to every watchmaker, not versed in the science. The apparatus for demonstrating watches is in all watchmaker's shops, and if not,	can be increased. Capital required, about \$8000. Stock all clean and salable. Full investigation given. Apply to G. F. KELDGG, care of Geo. C. Goodwin & Co., 36 Hanover street,	bench. Can do clock work and engrave. MARK E. BOGART,	the firms Soft hands belong to large mounts
The cost of demagnetizing is only a few minutes time. Satis- faction is guaranteed in every case. All receiving the process, must agree not to reveal it for one year. Remit by postal order or registered letter to W. D. McGLOGHLON, Watchmaker and Jeweler, 179 Dundas Street, London, Ontario, Can.	Boston, Mass. FOR SALE — A CATARRH REMEDY THAT WILL refunded. Only two dollars to jewelers, \$1.50. Address JOHN H. VATES, Sharon, Wis.	WANTED-CHARGE OF THE TOOL AND METAL departments of some good house. Experience and good references. Industrious, sober, honest, and capable. Box 216, Kennet Square, Pa.	generally. The bard-handed are energetic, and though without much tenderness of feel- ing, are capable of lasting affection.

THE KEYSTONE

A monthly journal for the Trade, published at Nineteenth and Brown streets, Philadelphia, price 25 cents a year, in advance.

culation 15,000, larger than that of any other journal of its class, reaching every jeweler in the United States and Canada.

Philadelphia, Pa.

Address all communications to THE KEYSTONE, ROBERT W. ROBINS, Publisher, Nineteenth and Brown streets

The Keyscone.

PHILADELPHIA, JANUARY, 1886.

New Year's card of unique design and delicate a State. shade.

STONE, will be furnished by writers who have KEYSTONE bends to the work of this and future earned names and fame by the product of their pens.

for their illustrated article on "A Singular crease in labor. Clock," which is reproduced in this issue of the KEYSTONE.

the wants of the paper demand.

OUR subscription books contain-we will be stamped out. venture the assertion-a larger number of cash subscribers than those of any other journal that circulates among the trade.

receive notices of a flattering character in their a marked copy to the KEYSTONE.

THE best sort of friendship in business, is to make reliable goods and sell them cheap. Customers have long memories, and build their friendships on past experiences.

issue, with interesting topics. The questions terms she pleased. It is not pleasant to be so are unusually pointed, and the answers by the situated, and unsafe to take such risks. Lightning Pivoter are brief and pithy.

THE tenth annual meeting of the Jewelers' Fourth Avenue and Eighth Street, New York city, Tuesday evening, January 18, 1887.

another, added to an article which is attracting general make-up which Mr. Childs possessesthe general attention of the trade, and causing a heart. the Manager of the KEYSTONE much grief for the lack of back numbers.

matter of every sort intended for the current Business during the year just past was good,

He was as fat and juicy as a pear.

tively unknown, but will very soon be brought 1888. It is too soon to put up much eash on to light, as the Northwestern road pushes its the result. way across the Territory. Baxter is the saintly name of the new governor, lately appointed by President Cleveland.

scription list, and the rate at which new names publisher of that most excellent journal, Good are pouring in, there are more people there than Housekeeping, to secure the electro-plates limit will be placed to the range of topics inin the other territories combined. And they which adorn our first pages. The KEYSTONE troduced. WILL HAZELTINE, of Kokomo, Indiana, are wide awake business people at that. Da- is especially grateful to Mr. Childs for his remembered the KEYSTONE with a handsome kota has population enough to be admitted as courtesy, and to Mr. Bryan for his willing ports received from over a wide section of the

> REVIEWING the record of satisfaction and in the appearance of the journal, and, it is to

defiance of the laws of the United States, and week ending Jan. 8, throughout the United usually brisk and profitable for the retail jew-CORRESPONDENTS have been selected who little or no attention is paid to the matter. States and Canada aggregated 299, against 273 elers. This is good news to the trade, and it are first in their respective branches of the And so it will continue while the powerful for the week preceding." trade, and their number will be extended as lobby is maintained by the Mormons at Washington. The use of money keeps the evil alive, until the country demands that it shall of the country newspaper sends out his

been discovered on a farm near Paducah, is no doubt that running a newspaper in the Kentucky. The public had hardly time to rural districts, is pretty tough sledding, and ANY of our friends in the Trade, who catch its breath, after this announcement, that whoever attempts it, earns all he gets, when another followed, stating that while the and more. The expenses of the KEYSTONE local papers, will confer a favor by forwarding geological situation was exactly right for dia- have to be promptly met, and the same treatmonds, the diamonds had neglected their ment is asked from subscribers. Twenty-five opportunity and were not there.

BOTH our Atlantic and Pacific coasts, are unprotected from assault by foreign powers. In case of complication with England, she could in four days place New York, Brooklyn, Boston, Philadelphia, and Washington under "OUR WORKSHOP" is full to the brim, this the muzzles of her guns, and demand any

Public Ledger, remembered all his employees physician assures him there is no serious indown to the office boy. It is estimated that he to expect he may be fully recovered in a few gave away at least \$25,000. Few are able to days." THE fourth chapter on "Hair Springs" is be so generous, or if able, lack that in their

HEREAFTER, the KEYSTONE will go to five per cent. over the corresponding month

PRESIDENT CLEVELAND should take care PROTECTION and Tariff Reform will be the of himself. The dime museum fiends are out watch words in the compaign of 1888. Political gunning for fat freaks and, by the way, if weather cocks are already shifting to the BREEZY BITS OF GOSSIP ON MATTERS adipose tissue was the test of a good president, breezes, and while outwardly there is calm, why was not David Davis given a chance? really the lines of battle are now being drawn. It is predicted by sanguine protectionists that Virginia, North Carolina, and WYOMING's mineral wealth is compara- Georgia, will vote the Republican ticket in

In the present number is given an illus-Mrs. George W. Childs. Mr. Childs kindly JUDGING by the size of our Dakota sub- used his influence with Clark W. Bryan, assistance.

OCCASIONAL contributions to the KEY- success of the paper, the manager of the rially: "Business has been seasonably moderate THE Philadelphia Record remarks editoin most lines, but the movement as a general years with an enthusiasm, zeal, and confidence thing has been satisfactory for the time of year. which will result in continued improvement It is too early for any widespread renewal of activity in the distributing markets, but mat-THANKS are due to the Scientific American be hoped, a larger pecuniary reward for the in-ters are shaping for an early improvement in many departments, and the surroundings of the general business situation are favorable for

> THIS is the season, when the hungry editor annual pathetic appeal to delinquent subscribers, begging them to send in cord-wood, IT was reported recently that diamonds had turnips,-Lord, anything to fill up on. There cents a year. Every payment promptly acknowledged. Send in the money.

THE Philadelphia Public Ledger of the 8th said: "In response to numerous inquiries by visitors, and by letter and telegraph, based upon erroneous reports of the injury thought to have been sustained by Mr. Childs by reason of his accidental fall upon an icy sidewalk on Thursday evening, it is found advisable to again say to all who share in the kindly feel-GEORGE W. CHILDS, of the Philadelphia ing shown by these inquiries that Mr. Childs'

THE NewYork Tribune says:"It will hardly You know we keep nothing but the very be accorded to ex-Surgeon-General Hammond finest goods, and it is difficult to decide which that he has benefited humanity by his verdict of the many novelties had the greatest run. THE official report of our imports during relative to one effect of the use of cocaine. Of one thing I am sure, those cameo glass the month of September shows an increase in Husbands who have been in the habit of using vases are as fine as anything I ever saw, and it for influenza and catarrhal troubles will fit for an emperor, every piece of them. Cost probably no longer keep it in the house since much, did you say? Well they are rather press, promptly on the 10th of each month, of last year. From this hint is drawn the Dr. Hammond says: A woman who had not expensive, but then nothing in vases can and all advertisements, communications, and conclusion of a healthy increase in business. spoken for nine months began to talk within compare with them, and every one is worth a four minutes after I had injected four grains. king's ransom.

TRADE TOPICS.

OF GENERAL INTEREST.

The Holiday Trade and Prospects for the Year, Gathered from Home Jewelers and Others at a Distance.

The general correspondence of the KEY-STONE that does not properly belong in "Our Workshop " will be collected under the head of "Trade Topics," and no efforts will be trated sketch of the \$40,000 dinner set of spared to make this department as interesting to the readers of the journal as the workshop notes have proved. Correspondents will be treated fairly and courteously, and little or no

Right here, it may be well to say that recountry, unite in pronouncing the trade during the holidays as something immense, and further, that the business boom is by no means slacking, but, on the contrary, the indications seem to point decidedly to an exceedingly prosperous year for the trade.

To ascertain still more fully the extent of the increased business activity there is made the following:

SPECIAL REQUEST TO THE TRADE.

Reports have reached the KEYSTONE that, THE MORMONS of Utah, are living in daily a good spring trade. The failures during the during the holiday season, business was unwould no doubt be interesting to hear directly from the retailers; their experience during the rush of holiday traffic, and their ideas on the business outlook for the year now opening before them.

> For this purpose the columns of the February KEYSTONE are opened to the trade, and it is hoped there will be a general response all along the line. If the holiday trade was good, and the prospects for '87 are unusually bright. it will take but little of your time to write the KEYSTONE to that effect.

The KEYSTONE should be the means of communication between the retail jewelers, and of general usefulness to the trade-You can make it so by writing for its columns.

Bailey, Banks & Biddle.

Mr. Joseph T. Bailey, of the above wellknown Philadelphia firm, the oldest house in this country, said to the representative of the KEYSTONE:

"Our trade during the holidays was the largest since the house was established. This is by no means a small store, as you may see for yourself. It looks deserted now, as it is about League will be held in Cooper Institute, with an appropriate gift on Christmas day. jury, or any result other than from the shock mate in a measure the crowds we had here to be closed for the night, but you can esti-No one was neglected, from the editor-in-chief of a heavy fall, and from this there is reason when I say that it was packed with customers.

> "What particular novelty attracted the most attention? Well, I can hardly say.

number, must be sent in by the 9th.

AT home-in the office-on the streettraveling by land or water-in the bowels of the earth, or up in a balloon-an interesting military strength. Russia is building military companion is the KEYSTONE. Issued monthly. Subscription price, 25 cents per annum.

RECENTLY, the American Express Company gave, in their circular to their agents, most unpracticed politician, and those best inan account of the Redwood swindle, and formed predict that an outbreak will take demand was the more gratifying to the pubwarned agents along the Canadian frontier to place before 30 days. take extra precautions against similar frauds.

GEORGE F. WHELPLY'S article on the "Engraver's Bench," with a fine illustration, is a free peep at an engraver's sanctum; a courtesy.

THE KRYSTONE has been literally flooded during the past thirty days with calls for back numbers, which it was utterly impossible to cannot be met.

thing continues, a fan will be necessary to pliment to the intelligence and taste of their for the success of the little journal, which is by Where do they come from ? hide the blushes of the proprietors.

and the outlook for the present year is even and in ten minutes she talked at a rate that "Our new factory, at Twelfth and Sansom

roads with an eye toward India, watched with uneasy glance by England. The least unwary with an increase in size, of from eight to political slip and all Europe will be embroiled in war. The situation is critical even to the

GENERAL LOGAN'S death removes from scriptions, business of every sort, in fact, came the stage of action one of the most striking to the paper unsolicited, and what was courage.

readers!

GERMANY and France are increasing their be recommended as beneficial and desirable ?"

THE KEYSTONE enters upon the New Year twelve pages. The child had outgrown his knee-breeches and jacket, and clamored lustily lishers of the paper, because it was a spontaneous growth. Advertising patronage, sub-

figures in our American politics. If he had originally an advertising sheet, pure and sim- Establishment, Thirteenth and Chestnut lived, it is probable that he would have been ple, had become a newspaper, known and streets, the jewelry, fancy goods, and stationprivilege not often granted to outsiders, and one of the strongest candidates before the next recognized as such by the trade. With the ery department was thronged all through the many thanks are due to Mr. Whelpley for his Republican national convention for president. present number, therefore, a new departure is holidays. The manager of this department Notwithstanding his strong character and made. Special attention will be given to the said to the KEYSTONE representative :

brusque manners, he was universally admired typographical appearance of the paper, and to "Our holiday trade was the best we ever had. for his inflexible honesty and determined the matter which appears in its columns. As At Christmas time the rush was simply terrific, an advertising medium its value has been long and the salespeople were completely used up

EVERYBODY gave a sigh of relief when the monials plainly indicate. Reaching every to see goods at once. There was no especial supply. It is your misfortune that you were Campbell divorce case was thrown out of the jeweler in the United States and Canada, its run on novelties that I can think of, but our not subscribers, and ours that your wishes English courts. During its continuance, the circulation is equal to that of all the other stock of fans attracted more attention than any night edilors, who are modest men, hid their journals of its class, combined. And as the article we displayed. It was a rich assortment faces while they read the proofs of the cable value of a journal to the advertiser is based especially the feather, and hand-painted gauze THE KEYSTONE returns grateful acknowl. dispatches. And now the Philadelphia public upon the amount of its circulation, the fact fans. Another attraction, was our stock of edgments for the pretty Christmas cards it has been nauseated by the sickening details of should not escape the attention of manufac- imported leather goods. In those show-cases found in its stocking. All complimented the the Messaros case which were given at length turers, and others, who wish to reach the ear we had 700 different styles of pocket books. paper in the most lavish terms, and, if this by many of the daily papers. What a com- of the trade. Every mail brings best wishes they were beauties.

all odds, the best and cheapest in the trade.

made up for lost time. Nothing could stop Streets, is nearly completed. It is a five-story her. Under such circumstances is cocaine to building, one hundred feet deep, and we will employ about one hundred and twenty-five hands in the various departments. Beside the jewelry manufacturing department, we shall in that building prepare and print our own envelopes and paper. I am glad to notice an improvement in the appearance of the KEYSTONE, which I read with much interest. It is just the paper that the trade requires, and it merits the success that it is achieving."

At John Wanamaker's

recognized by its patrons, as columns of testi- by the frantic appeals of buyers who all wanted

Well, the first came from Vienna, the next

from Offenbach, near Frankfort-on-the-Main, of a market for such goods as it used to be."

Changed Base.

to the KEYSTONE that he has removed to and Pivoting have been, I would be glad to that place from Ligonier, Indiana.

S. M. TINTHOFF recently removed from AN article of jewelry has been patented by business.

SOLON NEFF, formerly of Honey Creek. he has removed his business.

holiday greetings in the shape of kindly words for the KEYSTONE. He says that he takes two other trade papers, but prefers the KEY-STONE.

Broome County, New York, has moved to imported in unprecedented numbers for the for his examination and criticisms, which also Thompson, Pennsylvania. He writes the autumn and winter trade. The fancy colored appear in the article. It is the intention of KEYSTONE that he has opened his store, and gems appear to be in as high favor as ever, and the management of the KEYSTONE to give to intends to carry on business on a large scale. it goes without saying, that the trade continues the trade the best technical instruction. To

removed some time since to Lawrence, Kan- continue as usual to take the lead in gem fin- contrary, it is not the intention to publish any-Center to forward his mail, but failed to receive growing, not only in favor but in size, for both hind a notice that "We are not responsible for his KEYSTONE. Complaint was entered at these ornaments. Indeed, one sees clusters of the opinions of our correspondents." In a the office of publication, and it now reaches gems in brooches, scarf pins and in studs. him with pleasing regularity each month.

N. L. LINDSAY writes from Tom's River, New Jersey, to say that he has not received a KEYSTONE since he left Florida. And that brings to mind the fact, that he advertised in the KEYSTONE an orange grove in the land of flowers, and the paper was hardly out, before he had made a good sale. Mr. Lindsay says that he is in business at Tom's River.

ODDS AND ENDS.

Little Chunks of Information too Small to Carry a Head.

of delicate workmanship, is one of the novel- The surface is obtained which, after drying, introduction is presented the subject: ties of the season.

B. H. Bacon of Prophetstown, Illinois, writes: "I have read in the KEYSTONE of piano wire and needles for pivots. I have latest production of the Paris jeweler. The orused both, but much prefer a riding bow tem-naments made up to the present are brooches ple of spectacles, as they possess both the and bracelets, the former representing flowers, requisite stiffness and hardness."

D. H. GOSNELL, of Broadway, Ohio, says: In the December KEYSTONE I saw an inquiry by C. M., as to the best battery for silver plating. In my opinion the best battery for general purposes is the Bunsen Carbon Battery, No. 3, manufactured by C. E. Jones, Cincinnati, that period of existence. Bracelets are also Ohio.

Carson River, in Nevada, for quicksilver and ing from a golden bangle would certainly be amalgam. Eighteen miles of river bed have taken as such. been located. It is estimated that ten per cent. of the bullion product of the Comstock RARE patterns of Jewelry in old silver, mines has flowed as tailings into the Carson finely wrought in imitation of ancient jewelry, River, and that at least \$40,000,000 will be are also among the favorite trinkets of fashion recovered.

"GARNET." makes this point: As there are and then from Berlin. Paris is not so much so many valuable receipts and processes in the workshop notes of your paper, allow me to WALK IN FRIENDS, AND MAKE YOUR- men are aware that the greatest accuracy in suggest that in the last issue of the paper for the year you give a complete index of said notes. If the more valuable notes could be If Too Busy to Call, Send Tips for the Trade, JAMES TURLEY, of Angola, Indiana, writes printed in book form, as those on Engraving buy the book.

Brookville to DuBois, Pennsylvania, and the Mr. Jethro C. Cottle, of New York city. This KEYSTONE follows him to his new place of invention covers an improvement in ornamental pins for neck scarfs, handkerchiefs, etc., embodied in the form of an insect or bird made of gold, silver, or other suitable metal, Indiana, now receives his KEYSTONE at the feet or claws serving to attach the pin, Brooksville, Hernando Co., Florida, whither which is acted on by a concealed spring, the wings serving as levers to overcome the tension of the spring, and separate the claws, to paper. This advice is to insure against mis-J. B. WARD, of Trenton, Ontario, sends detach the article from the clothing.

vival of the opal. One sees them not only in been reproduced in the exact relative proporthe importer's stock, but in all the show cases tion, but the cut is one-half the size. The P. R. ST. JOHN, formerly of Nineveh, of retail houses. Fine diamonds have also been article was submitted to the Lightning Pivoter hole-jewel, or even the sink in which the disc brisk in semi-precious stones. Solitaires, al- this end the columns are open to all who have W. R. DE WITT, of Clay Center, Kansas, ways in fashion for those who can afford them, useful and instructive ideas to impart. On the He requested the postmaster at Clay ger rings and in earrings, but clusters are thing and everything, and then withdraw be-

> be colored like the surrounding copper, it certain technical manipulations may not be can be done by moistening the solder with a given, and any suggestions pointing out a saturated solution of vitriol of copper and then better way will be gratefully received and touching the solder with an iron or steel wire. courteously acknowledged. But they must be A thin skin of copper is precipitated, which really and plainly better than the method first can be thickened by repeating the process sev. given, to merit extended notice. eral times. If a brass color is desired, a satu- In the present instance, Mr. Lasne shows rated solution of one part of vitriol of zinc and the desire to convey useful and practical ideas two parts of vitriol of copper is used on the which is always commendable. On one point previously coppered solder and the latter there will be wide difference of opinion, and rubbed with a zinc wire. To gild the soldered that is his claim that special tools are unspot, it is first coated with copper in the man- necessary, Those tools which favor accuracy can be very brightly polished.

BLACKENED silver set with brilliants, the silver of the exact tint of black pearl, is the roses, marguerites, nasturtiums, and hedge roses, in unusual size-flowers that have de- ures.' cided important corollas, for the centre of the flower only is ornamented with brilliants. The effect is very elegant and charming, and is a novelty for half mourning that will be taken up very much by ladies who are passing through made of the same metal, with two tiny chains and balls hanging from them; the balls look A COMPANY has been formed to dredge the exactly like two large, black pearls, and hang-

OUR WORKSHOP.

SELVES THOROUGHLY AT HOME.

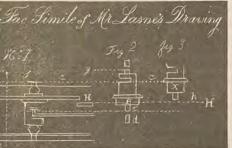
Compare Theory and Practice, and Answer Ouestions.

As the headlines indicate, this is the corner of the KEYSTONE, specially provided for those of the trade who are capable of instructing, and as well, for those who are anxious to learn the minutiæ of the art of jointing. It is a free-for-all, and you are invited to take a hand in the chat whenever you feel the inclination. Our correspondents will bear in mind, however, two very important facts, which are: Write plainly, and only on one side of your takes by the compositor, for your sake and his. The entertainment for this issue was opened by a communication from P. Lasne, of Charlotte, THERE appears to be no doubt about the re- N. C., which follows below. His drawings have sense the KEYSTONE is responsible for what appears in "Our Workshop." In every WHEN copper is soldered, and the solder is to instance, the best method of accomplishing

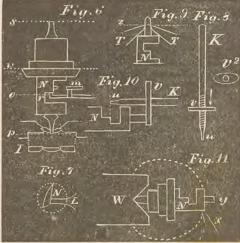
Special Tools Unnecessary.

turning and fitting cylinders that I send you too much uncertainty to be advisable. A one that I have always seen practiced, and special tool for phtaining the measurement always with perfect success. If you consider from o to p is shown in Fig. 8, and consists of it worthy of publication it is at your disposal. a common sewing needle, K, softened, and a The subject may be termed "How to fit a cyl- screw cut on the end as shown. On this screw inder without special tools by reverse meas- is a tiny oval-shaped nut shown at v. This

your cylinder of the correct size and put in The lower end of K is filed or turned down to place the cylinder-wheel and balance-wheel a pivot as shown at u. This pivot is made bridge, without regulator, if it has been ham- small and long enough to go freely through



is the uncertainty and inability to obtain position and correct measurements. All workmeasurements for a cylinder are required to obtain the height from the upper surface of the lower cap-jewel to the neck of the 'scape-wheel tooth as shown in Fig. 6, below. Now, let us consider what is required in such measurements, and then endeavor to get at the best means to get the most accurate results. The measurement which requires the greatest accuracy is embraced between the dotted lines o, p, Fig. 6, which represents the upper surface of the lower cap jewel on the line p, and the upper surface of the neck of the cylinder tooth on the line o. Mr. Lasne, in his measurements, takes the distance from the upper surface of of the balance-bridge downward, or from the dotted lines, to o. The objections to this course are several. First, the relative position of the parts do not favor accurate measurements ; second, the system would be useless with a wax chuck lathe; third, the measurements are not as accurate or rapid as the system given below. We all know the lower cap-jewel is I is set, is variable, consequently, the only perfectly accurate system is, to measure from the neck of the tooth downward through the hole of the lower hole-jewel to the upper surface of the lower cap-jewel.



I have no doubt that those persons who ner indicated above, and then with gum or and despatch are always necessary, as will be make a specialty of turning cylinders could IRON JEWELRY, in exact imitation of stone isinglass and powdered with bronze powder. shown by the Lightning Pivoter. With this and would get their measurements in this way to succeed in almost every instance, but for those persons who have do all and every kind I have seen so many different methods of of watch repairing, the system is fraught with nut is shaped as shown at v2 when seen from Having taken the watch apart select above, in the direction of the arrow in Fig. S. mering. Remove all things and screw in place. any hole-jewel at the foot of a cylinder. In using this special tool we turn the button or nut so that when the balance is removed and the 'scape wheel in place, and we put the pivot uin the lower hole-jewel the extreme lower end of u rests on the cap-jewel. The button vwill just turn over the neck of the 'scape-

wheel tooth as indicated at the dotted line N, in Fig. 7. In this Fig. L represents the 'scapewheel tooth. In turning in a cylinder even with an American lathe we should use a wax chuck; and in preparing a cylinder for the wax the first thing done would be to establish the height from p to o, with the special tool shown at Fig. 8. Next take the cylinder selected and with a pair of cutting pliers hold the lower pivot (in the rough) as shown in Fig. 9, where H represents the cylinder and T Tthe jaws of the cutting pliers; file off the lower pivot on the dotted line i until by trying with K, as shown in Fig. 10, we establish the height of the lower part of the cylinder between the lines o, p, Fig. 6. We have now our cylinder with the top left just as we get it, but the lower end is cut to right length. We now insert the cylinder in the wax as shown in Fig. 11, where H represents the cylinder and W the wax chuck, the dotted outline showing the extent of cement or wax used. In truing up use a piece of peg-wood as shown atx. Frequently the lower plug is not inserted firm enough to hold securely. In such cases turn the extreme end of y with great care until true, using a very sharp graver, then, add cement until all but the extreme end of y is covered; truing again but this time by the trued up tip of y. In turning the lower pivot of a I have examined Mr. Lasne's communica- cylinder more care must be observed than in

feeder has been patented by Mr. Louis Degue- very fine chains, brooches to match, and ex- your cylinder in place between bridge and nant, of Cour-Cheverny, France. The inven- quisite chatelaines of fine workmanship. The plate, without cap jewels. Then reverse your tion consists of a box or feed receptacle divided chatelaine consists of an ornamental hook to cylinder as shown in B, Fig. 2, and place it into one or more compartments, with discharge vents and gates or valves, and mechanism actuated by clock-work for operating them, sary to the worktable-for instance, a thimble- longed line showing the room of the wheel inwhereby food, water, etc., may be automatic-ally distributed to stock and other animals at the proper time.

hundred thousand marks, for the Empress of pending a bunch of keys. Japan. It has not hitherto been the custom for Japanese ladies to wear diamonds, but the of her Western models.

A PROCESS for gilding or decorating glass twenty-four hours then she will run all the perfect success and great rapidity. with gold and silver has been brought out by time." the Glass Decoration Company. It is stated to be a revival of an older process, or in other quickly destroyed by exposure to the air.

just now. There are beautiful bracelets com-THE boss thing for lazy folks, a time stock posed of detached ovals fastened together by In Fig. 1, a a represents the total height of

and a yard measure. In some models the latter take the total height α , α , with the guage, are exchanged for a silver pencil-case, and a which will give the height of the cylinder e, g, A FIRM of Berlin jewelers, has just finished scent-bottle, or a tiny note-book, while some at which place cut it as shown in Fig. 2. Then a diamond diadem and necklace worth two ladies prefer a silver whistle or a circle for sus- turn the place for the balance-wheel as shown

T. R. MCCLELLAN, of Altoona, says : "I der-wheel bridge, and the distance between Empress, in sanctioning the adoption of Euro- noticed the article in your paper regarding the pivot and bridge shall be the same as between pean dress, has also availed herself of the strange behavior of a certain watch. I opportunity to introduce the precious stone would advise that man to have that watch cylinder. The space of operations has been that plays so important a part in the decoration blowed in a glass box perfectly closed, it would contracted to show with what precision a cylthen tell whether it is the electricity in his inder can be fitted by this method, and I have

-E. J. POTTER, Sherwood, O.

fasten to the waistband, from which depend close to the bridge as shown in the pointed line five chains, each upholding some article neces- c c. Cut the stem d at the place e; the pro-

in Fig, 3, until the stem of the cylinder approaches the line H, h, representing the cylinbalance-wheel and bridge; then rivet your body which stops the watch. If she runs seen it practiced in Paris and Geneva, with

THE LIGHTNING PIVOTER'S PROCESS.

IN Nov. No., M. J. Spayed, of Westerville, tion and drawings, and while I find nothing turning the top as any extra heavy cutting words the discovery of a lost art. The metal O., asks for a receipt to remove collodion from particularly novel about the methods he de- will loosen the wax and likely break the cylinis precipitated on the back of the glass and silver-plate. Apply alcohol on cotton flannel scribes, still I know that practical ideas on this der in the throat at r. Of course we should then coated with a protective composition or chamois skin and it will come off. To apply particular branch of watch repairing would be turn our pivot to fit the hole in the jewel. which excludes the atmosphere. It will not use a fine camel's-hair brush. Process for useful to many, particularly the younger mem- We now remove the cylinder by heating the answer for ordinary gilding purposes, as it is making is lengthy. Read U.S. Dispensatory. bers of the craft. The greatest objection I see wax chuck W. It is not necessary to boil off to the method he calls" reverse measurements" the wax, all we need do is to get at the top part

and the pivot just turned. We now proceed if true curve surfaces were in contact, as will to get a catalogue of several lathes with the the job being badly done. Sometimes if the greatest nuisances in using a wax chuck for a taxed, as explained and illustrated above. cylinder is the bulk of wax left on the cylinder when we remove it from the chuck W. This can be avoided somewhat by using a piece of sheet brass about $\frac{1}{2}$ of an inch wide, $\frac{1}{5}$ thick, New York, and asks an answer through the and an inch or $1\frac{1}{2}$ long. Through this we $K_{EYSTONE:}$ "I would like to have some of your the balance goes in this position, the wax is person's pocket? If so please state a case." easily scraped off, and what remains boils off in alcohol very quickly. By following these keeping qualities of a watch; not personal for tempering punches is lard oil, using fully instructions any good lathe workman can turn magnetism. Few watches have the same rate one-half a pint, and the temperature of the oil a cylinder in twenty minutes after he has se- in all positions, as, for instance, a given watch should be down to 60° F. If we do not use a lected a cylinder of the right size.

How to Clean Clock Springs.

W. H. Rich brings up the following subject: "Will you, or some of your correspondents, give in the KEYSTONE the best method of cleaning to keep the springs from rusting. I have tried various methods of cleaning such springs, but do new springs.

different coatings for his springs. Tallow as he chose. applied to a spring when hot (the spring hot) is about the best coating; and then wiped, not as clean as we could wipe with a cloth, but a "Anxious" wishes very much to know: "Does sort of "a rub and a promise" wipe, leaving wearing an Electric Belt in any manner affect the a very thin coat of tallow on the spring. Many persons use benzine for cleaning clock springs, but its use has some drawbacks. It the easiest work first, that is, mix with the even of considerable quantity or intensity, soft oil before it attacks the hard, dried, have no disturbing influence on a watch. It resinous matter of the oil, Probably every is only when such currents are applied to end of the punch, when pressed on the hole person is aware that if we handle pitch or tar magnets that they exert a pernicious influence it adheres strongly to the fingers, and if we on watches. attempt to remove it with turpentine or benzine portions of the tar will adhere with provoking tenacity. But grease the hands well ience, leads. No old spring will work as delphia, Pa. smooth and pleasant as a new one. This can be explained by two causes : first, two metals

just as Mr. Lasne directs for getting the entire be evident on inspection of Fig. 5, where the attachments. and make a note every time wheel is only a triffle too large, and the wheel length by calipering from the upper surface of lines n. j. represent two coils of mainspring. you think you need a given attachment. Do merely turns, a hollow punch shaped as the balance-bridge on the line s, to the lower- Now at k the curve of the springs nearly cor- this for six months, and you will in this way shown at B, Fig. 2. Here c represents the surface of the hole-jewel sitting on the line t, respond, and the coils would glide easily over establish which attachments you need most. pinion and d the 'scape wheel. There should Fig. 6: The line w represents the bottom of each other; but at 2 the angles formed as the balance and is established by measuring above described attack each other, and an exdownward from the balance-bridge to the top cessive friction takes place. And the worst of downward from the balance-bridge to the top cessive inction takes place. And the worst of the 'scape-wheel bridge with K. We file off this feature is these angular bends establish the top pivot to the length from s to p, as interpret the service most prominently in the inner the solution takes to be put on without injuring the solution takes and the hole selected which fits the top pivot to the length from s to p, as interpret the service most prominently in the inner the solution takes and the hole selected which fits the top pivot to the length from s to p, as interpret the service most prominently in the inner the solution takes and the hole selected which fits the balance promotion takes and the hole selected which fits the balance promotion takes are shown and the selected takes the selected which fits the selected which fits the selected takes the selected takes are shown and the selected takes the selected takes are shown and the selected takes the selected takes are shown and the selected takes the selected of the 'scape-wheel bridge with K. We file off this feature is these angular bends establish dicated by the calipers. Insert the cylinder in coils which are required to run the clock at the lustre on the case. the cement putting the pivot just turned into weakest and most ineffectual efforts of the The application of a paste of yellow ochre come to a thick edge around the hole. Such the chuck W. We turn the upper pivot, the spring. For these reasons you will see it is and borax will preserve the color as well as punches will swell out the pinion outward, seat for the balance, and hair-spring collet to almost impossible to have a spring which has anything known. But to hard solder on a and tighten it. The true way to fit a pinion correct sizes. Heat the cement and remove been used some time work as smooth as a new joint to either a filled or solid gold case is shown in Fig. 3, where e represents the pinthe cylinder from the chuck. One of the new one, as all the inner coils have been over- and not injure the lustre, is something not yet ion and d the 'scape wheel. In turning, the

Personal Magnetism and Watches.

J. L. Shepherd sends over a conundrum from drill five or six holes, corresponding to the numerous readers answer this question : Did you are as follows : average cylinder sizes. We heat this piece of or any of your readers ever know of a case where brass up to the melting point of the cement, and press the cylinder into one of these holes. When the wax is scraped away from the cylin-der and forced out around the brass collet where

has a gaining rate of five seconds a day when considerable bulk of oil the steel will not chill laying down; but hang it up it runs nearly or quick enough to temper well and evenly. quite right. Now give this watch to a person to carry who lays his watch down every night, and the watch would appear to gain time. Again, one man's exercise might be much clock main springs, so that they will work as freely more trying to a watch than another. But as new springs do?, Also state what the manu-facturers of clock main springs put on as a coating can or does influence a watch is nonsense. It can or does influence a watch is nonsense. It would be as preposterous to assert that a man not succeed in getting them to work as freely as could go on a platform scale and, by the mere exercise of his will or mesmeric force, Almost every maker of clock springs uses cause himself to weigh either 160 or 175 pounds,

Belts do No Harm.

timekeeping qualities of a watch? If so, what is the remedy

Wearing Electric Belts, as they are usually true, benzine will dissolve gummy oil, but constructed, would have no appreciable effect t is like many other servants-it likes to do on a watch. Mere-currents of electricity,

Easy-flowing Gold Solder.

Put your gold of any carat in a crucible and easily done, as the 'scape wheel is set directly with oil, and the stubborn adhesiveness is melt. When in an easy-flowing state add to on the pinion; and if the job was well done Repairing Department Attached. conquered with ease. If the spring is warmed it one-fourth its quantity of cadmium. Stir, originally a 'scape wheel will seldom come up to about 150° F., almost any oil, even tal- and pour quickly into an ingot, which must loose; but if one does come loose the best way Tools, Material, Etc. low, will speedily remove every vestige of be close at hand. Should the quantity of as a rule is to put in a new pinion; for the gummy matter. This course, followed by cadmium be a little more, it will do no harm, wheel being loose is prima facie evidence of wiping as above directed, gives good and sat- as it is volatilized in using, which accounts isfactory results. We have tried turpentine, for the solder being the carat of gold of which camphene, benzine, sal soda, potash, hot suds, it is made, when used. Cadmium may be but oil or tallow used as above, in our exper- had of S. S. White Dental Mfg. Co., Phila-

J. P. M. B., Trinidad, Colorado.

To Hard Solder a Filled Case.

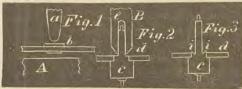
discovered.

Nuts Neatly Cracked.

usually hollow, and for this reason are more surface of the 'scape wheel d.

Question 2 .- The best way to fasten the escape wheel on the pinion when it becomes loose?

Answer.-You do not say whether it is a brass or steel 'scape wheel. All American patent and a detached lever? watches have brass 'scape wheels set on a brass bush. With these all that is necessary was the rach and pinion lever. Then came is to close the hole in the bush with a round-



presents the punch and b the 'scape wheel, FINE WORK A SPECIALTY. and A the stake on which we place the wheel.

The cut is three times the real size. In the cut the parts are shown separated, but in closing the hole the wheel b is lain on the stake A, and the round-faced punch a placed on the hole where the staff goes. The rounded for the staff, finds the center. So when we I strike the punch a gently, we close the hole a little by forcing it in. After one side is closed we turn the 'scape wheel over and close the 31 and 33 South Pearl Street,

other side. In steel 'scape wheels it is not so

be three or four punches kept for this purpose and drilled deep enough at e to admit any staff. Each punch should have a different these punches should be shaped as shown, and pinion e is undercut at i. i., and the part at n. on which the wheel goes should fit tight in d. In staking on the wheel, a hollow punch, J. T. Smith bobs up serenely with a handful of with a hole in it larger than the turned down

on the shoulder of the pinion without touch-Question 1.-What is the best way to temper ing the edges i. i. After the wheel is in place a flat-faced, hollow punch is used to close down Answer.-Punches used in staking tools are and rivet i i smoothe and even with the upper

The habits of the person influence the time-comping outsiling of a writch is not extended to the term of the time of the time

Answer.-Yes, the arbor IV turns free.

Question 4.-Is there any way to make a soldering fluid for hard soldering?

Answer,-There is no soldering fluid for hard soldering, except the fluid paste made by grinding borax in water.

Question 5.-What is the difference between a

Answer.-The first and original patent lever the detached lever, in which was a jewel pin faced punch, as shown at Fig 1, where a re. acting in a fork for only a small portion of the arc of vibration of the balance. Both methods were patented, and the term patent lever has been applied to both systems, leading to some confusion.

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> > Established 1869. _0_

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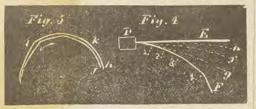
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8

of precisely the same temper and hardness never wear smooth when rubbing on each other, no matter what lubricant is used. Second, a main spring, as it is used, looses a sends down a problem with which he has been portion of its elasticity and becomes, in a hand a P. S. Bartlett movement, which requires a technical sense, set, And the set is not a mere new Brequet hairspring. I sent to Waltham and got two of different strengths. One gains twentybut the spring, under the extreme tension to which it is subjected sets in angular bands which it is subjected, sets in angular bends.



This will be understood by inspecting Fig. 4, where D represents a stud, and E a perfectly many of which will be given in our articles on straight piece of steel, like a piece of mainspring. The dotted line f shows a perfectly safe curve of deflection : that is, the spring can be bent to this curve for an almost unlimited number of times, and the spring will re-turn to its normal straight line (D. E.) But if we bend it to the curve g we then tax the elasticity of the spring to its uttermost, and if We cannot answer such questions through we exceed this deflection the spring will not the columns of the KEYSTONE, as it would go back to E, but assume, when at rest, the be giving one lathe-maker a preference to position indicated by the line h. If we con- which we do not imagine he is entitled. We tinue the deflection until the spring assumes have three or four makers of so-called Amerithe form indicated at F, the spring will yield can lathes which are of about equal merit. at the weakest points, and angular bends be In regard to a lathe having hard or soft bearestablished, as indicated at the dotted lines ings, depends entirely on how much you in-1, 2, 3, 4. It will be readily understood, now tend to use a lathe. As for attachments, every that as the coils of the spring have to slide on watchmaker has a different idea of his re-

More about Springs.

I would like to ask through your columns is this: Would it be advisable to increase the weight of the balance or diminish it with screws. Of course it is better to have one the right strength, and equal to the weight of balance.

If your balance has less than seven screws, use the stronger spring; if more than seven, use the weaker one. It is desirable to keep the balance at as near the weight it came from the factory as possible, for many reasons, "Hair Springs and Springing."

Read the "Keystone" Ads.

James B. Hill asks: "What make of lathe

each other they will not glide as smoothly as quirements in this way. A good way to do is

Brushes,

For Jewelers, Silversmiths, Watch Case Makers, Engravers, Machinists, Bronzers, Platers, etc.

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A SINGULAR CLOCK.

Escapement and Pendulum.

gold set with the rarest stones, shoulder-knots with diamond pendants, and gloves, em-Presenting Novel Features in the Way of broidered with pearls, worn to shield the hand Which Show That a Strong Free Trade Wind ishing and engraving the other precious stones that bore the falcon from the grasp of his claws,

were among the costly articles of dress worn The novelty of the clock which is here illus- by all who claimed, any rank at court. One trated, consists principally in what we might of the dresses worn by Gabrielle D'Estrees had term the escapement. Beneath the main on the front of the skirt, set close from waist asking what action Congress should take on worn just as it was found in its native bed. mechanism is placed a tilting-table pivoted to foot, rosettes with a superb sapphire in the upon studs projecting from the centre of its centre of each one; Marie de Medicis wore long sides, so that it is free to have a seesaw velvet beaded with diamonds, the stones being present laws, though they differ as to the means powerful monarch of the middle ages wore a movement. Upon the upper surface of the first set in a delicate golden network of the retable is formed a zigzag path or groove in quired design, and then sewn on the dress. ing is an abstract of some of the replies :-which travels a small steel ball. The path is The ornaments used on the tables, when royal made up of sixteen divisions, so that the ball, banquets were given, matched in splendor the the majority should be to press some scheme of from the incontestible fact that the ancients starting at the elevated end of the groove, dresses of the courtiers, and precious stones passes across the table, forward and back, were as profusely used in their decoration. previous question if possible." until it reaches the lower end, which is then One of the golden dishes on the table at the elevated to enable the ball to run back to the wedding feast of Jane of Navarre and the starting-point, which is again raised, and so on. Duke of Vendome, in 1548, had for its standard



A Novel Clock.

Attached to one end of the table is a rod the golden figure of a demoiselle riding on a leading upward to an arm placed at right palfry that was carved of mother-of-pearl. angles on the end of a shaft driven in the The platform on which this horse stood was usual way. When the ball reaches the de- enriched with six rubies, six turquoise, and pressed end of the table, it strikes a spring three fine pearls.

which releases a catch holding the shaft.

which is thereby permitted to make a half

turn, and its arm is correspondingly moved to IT is told of the eccentric nobleman Petemraise or depress, as the case may be, that end kin, the favorite of Catherine II, that in his of the table to which the connecting rod is old age he would pass his evenings in playing attached. The ball then runs down the table, with diamonds, rubies, and sapphires. On a strikes a similarly arranged spring at the op- black velvet cloth that draped a table he would posite end, when the movements are repeated arrange these stones in fanciful patterns, or he and the position of the table again reversed. would pour them from one hand to another as It takes fifteen seconds for the ball to travel children play with shells. One night he took the from one to the other end of the table. It is fancy to have them weighed, and found that evident that if the inclination of the table be they amounted to several pounds in weight. varied, the time occupied by the ball in descend- Few people in the world are rich enough to ding will be either increased or diminished, amuse themselves in such a way as this, but the and the clock thereby regulated. This is accom- universal love of ornament prompts every one plished in a most simple and effective way by to own at least one piece, if no more, of jewelry. slotting the arm to which the upper end of The work of the jeweler goes everywhere, the connecting rod is attached, so that by into the humble home, as well as into the palplacing the holding screw nearer to, or further ace. It can, if done with a right understandfrom the shaft, the inclination of the table ing of its use, educate and refine the public may be varied as necessary. taste, as the exquisite art treasures of Vienna The clock is provided with three separate freely displayed to its citizens, made them at dials or faces; the hand in front of the one to last so critical as to decorative art, that they the right, makes a revolution in one minute, demanded even for the kitchen skewer graceso that at each change of the table it moves ful shape and delicate ornament.

POLITICAL STRAWS

is Blowing.

tariff is essential to prosperity in business to itself; yet it is no less extraordinary that these the country at large, I am in favor of keeping same people who knew how to melt soft iron, it constantly to the front until success attends which requires fifteen hundred degrees centithe effort and a reasonable measure of commer- grade heat, were never able to burn the cial freedom is obtained."

a measure did not see anything to encourage lar apparatus being necessary. In the year the belief that the tariff revisionists would be 1476 the discovery was made that the diamond successful in either this or the next Congress." possessed the peculiar property of being cut

Colonel Morrison sent the following letter and polished by itself. from Waterloo, Ill. : "The attitude of the majority party in the House this winter toward THE taste for antique ornaments still prethe tariff question should be that attitude vails, and on the black velvet neck-bands, which will best secure such a reduction that which are again perceptible in ball-rooms, the tariff will yield all the revenue we need pendants are shown which were fashionable and no more, without removing the Internal two centuries ago. Wrought metals in Egyp-Revenue tax on tobacco and liquors."

gaged in the fight are enlisted for war."

he was pleading with the leaders for a more dates itself to their otherwise inconvenient size. aggressive policy."

saw, soon after the inauguration of President season. Upon many are to be seen butterflies, Cleveland, that his policy was going to run in dragon-flies, and scarable in raised mosaic. On the same channel with the Republican policy. others are shown in enamel the predominant They are identical on the finance, on the tariff colors of either the foundation or the ornament and on the land question. Cleveland's policy of the fan. Garnets, sapphires, and emeralds is in opposition to any regulatton of railroad are now uniting with diamonds to accentuate freights, and, in a word, is a simple subletting the floral designs seen upon those rich creations of Republicanism under Democratic colors. represented in Brussels point. Most of the less With such a policy the great mass of the peo- costly fans are of fine gauze, on which are ple have become disgusted, and thousands of painted flights of birds or groupings of the Democrats to my knowledge have voted the same upon branches of flowering trees. An Republican ticket to manifest their disappro- example in neutral tints shows five or six bation of Cleveland's suicidal policy."

DIAMOND cutting is a modern discovery. The ancients, who had brought the art of polto its highest point of perfection, neither knew how to polish or cut the diamond. All the Some weeks ago the Boston Globe sent letters authors who have mentioned this gem, are of inquiry to leading Democratic Congressmen, agreed as to this fact. In olden times it was the tariff question in the present session. We see them set in this way in the shrines and Nearly all the replies favor a revision of the reliquaries of the ancient churches, The most by which it should be accomplished. Follow- cloak clasp ornamented with four rough diamonds, known at that time as pointes naives Congressman Collins said : "The attitude of or simple points. Certain authors, arguing reduction to a vote under the operation of the excelled in the engraving of precious stones, using diamond points set in iron for that pur-Congressman Bragg, of Wisconsin, wrote : pose, do not admit that they ignored that this Believing myself that a reduction of the hard mineral could produce the same effect on diamond, which consumes in flames at about Congressman Lovering while in favor of such thirteen hundred and fifty degrees-no particu-

tian, Indian, Roman, and Norman designs E. Q. Mills, of Texas, says: "The people en- are all pressed into such service. Anklets are being utilized as bracelets, now that the latter Congressman Warner, of Ohio, wrote that are worn on a part of the arm that accommo-

A return to the ancient mode of ornament-H. Hiatt, of Crawfordsville, Ind., says: "I ing the outer sticks of a fan is observable this wrens poised on a spray of cherry blossoms.



9

around one-quarter or fifteen seconds; the centre dial-marks minutes, and the left-hand one, hours .- Scientific American.

artist's skill to the utmost. Girdles of wrought century.

RECENTLY a prominent manufacturer said : " Enthusiasts may bow down reverently before their idols of antiquity and descant upon their

THE first jeweler who attained eminence in merits until they are black in the face, but we his art in Europe was St. Eloi, who lived in cannot be convinced that the ancients ever the eighth century during the reign of King made anything that approaches the specimens Dagobert I. He has been followed by a bril. that are now to be seen in the busy marts liant succession of goldsmiths and jewelers where industrial arts find its reward in a cerwho have left behind them in different tain measure at least. The ancients may have museums ample proofs of their skill and taste. made all the good jokes, which we can only During the wonderful period in history called repeat, and at which we smile sadly, but they the Renaissance the art was carried to great certainly cannot be credited with making perfection. The use of precious stones was many other things that are not equaled or exlavish beyond all precedent, and taxed the celled by the productions of the nineteenth

the trade on watches and material

FOR SALE BY ALL JOBBERS.

THE WATERBURY WATCH CO.,

GEO. MERRITT, General Selling Agent, 52 Maiden Lane, New York City, Factory, Waterbury, Conn. London Office, 17 Holborn Viaduct, E. C. ROTTERDAM. BOMBAY (INDIA). PARIS. BRUSSELS.

PRECIOUS PEARLS.

Parts Which They Have Played at Different Periods in the Past.

took the meaning of loyalty that he ground a most highly prized jewels. pearl, which cost him £15,000, into a cup of wine, in order to thus fitly drink the health of his queen! This plagiarist again, had many rivals in the courtiers of Louis XIV., who in their insane extravagance were wont to Rubies, Rich and Rare, to Pay a Revenue to pulverize their diamonds, and occasionally used the powder to dry the ink of their letters which they sent their loved ones. Is diamond powder in the hair much worse?

£111.000 for the gem.

Mr. Hope's pearl, which is looked upon as sovereign of the country was entitled to every two conditions rarely to be met with : they must be perfect spheres, and they must be been worn by others. After twenty-five years' Amsterdam, London, and Paris. search he at last succeeded in presenting his empress with a necklace as the world had never seen before.

As this admiration for fine pearls has been the common weakness of man in all ages, and in all countries, we need not wonder at their

When Abraham approached Egpyt, the book tells us, he locked Sara in a chest, that none might behold her dangerous beauty. But when he was come to the place of paying custom, the officer said :-

"Pay custom !" And he said :-"I will pay the custom." They said to him :-" Thou carriest clothes." And he said :-"I will pay for clothes." Then they said to him :--" Thou carriest gold." And he answered them :-" I will pay for gold."

which prided itself on the possession of magnificent ancestral pearls, panic-stricken by finding some of the precious gems turning of a sickly color, and crumbling into dust. It is but a few years since the Crown Jeweler of We all know how Julius Cæsar, when he France solemnly applied to the Academy of was in love with the mother of Marcus Brutus, Science for a remedy against this disease, gave her a pearl worth nearly a quarter of a caused probably by the decomposition of the million of our money; and how Mark Antony membranes which form part of the pearl, and drank one dissolved in vinegar, which cost are, after all, liable to decay and corruption, nearly four millions, while Clodius, the glut- like all animal matter, by contact with air. ton, swallowed one worth forty thousand. The There was no answer given, but the advice to example of Cleopatra found an imitator even preserve the precious gems as much as possible in sober England. Sir Thomas Gresham, not from the influence of light and air; and the otherwise famous for acts of folly, still so mis- Crown of France has since lost some of its

GEMS OF THE ORIENT.

Great Britain.

The report comes from India that the government proposes to extract a revenue from the The largest pearl on record is probably one great ruby mines of Upper Burmah, which brought by the most romantic of all travelers has recently been acquired. The ruby-mining and dealers in precious gems. Travernier, of region is situated some seventy miles northeast Catifa, in Arabia, where a pearl fishery ex- of Mandalay, and extends over an area of REFERENCES: isted already in the days of Pliny. It is said about one hundred square miles. The territory -for the pearl is unknown in our day-to have has been regarded as "sacred ground "since it -for the pearl is unknown in our day—to have been pear-shaped, perfect in all respects, and nearly three inches long. He obtained from the obtained from the Shah of Persia the enormous sum of the titles of the late King Theebaw and his predecessors was "lord of the rubies." The MUSIC BOXES,

the finest now known, is two inches long and ruby or other gem that was estimated to be four inches round. It weighs 1800 grains, and worth more than \$50. It was reported that like all such varieties, is of such enormous and Theebaw had several bags and boxes full of uncertain value that no one would buy it at a very large rubies that fell to him by virtue of market price. The most beautiful collection their size and value. If he did have them, of pearls belongs to the dowager Empress of they wersstolen during the interregnum. None Russia. Her husband was exceedingly fond of were found in the place or royal treasure-house, her, and as he shared with other fancies, also though it is known that the king and queen that for fine pearls with her, he sought for carried away with them several of enormous them all over the world. They had to fulfil value. It is presumed that most of the gems the late king collected were taken by persons in his employ and are now secreted. In due virgin pearls-for he would buy none that had time it is expected that they will appear in

It is understood that the great ruby mines will be "farmed out" to companies of European capitalists as soon as suitable surveys can

be made. The mines will be worked on scientific principles and the Indian government will receive a certain percentage on all the playing a prominent part in religious writings. profits. Up to the present time the most The Talmud has a pretty story, teaching us primitive methods of mining have been emthat those who believed in it, esteemed but one ployed. Superstition and tradition have object in nature of higher value than pearls. guided the operations of the ignorant miners. They have had poor implements, and no ma-Test Sets and Lenses. Test Sets and Lenses. chinery has been employed. The digging has only extended a few feet below the surface of the ground.

It is likely that the Oriental ruby or red sap-It is likely that the Oriental ruby or red sap-phire will in the course of a few years become the fashionable gem. Since the development of the diamond mines in South Africa, this once rare gem has become very common. The price of diamonds has fallen to such an ex_ tent that persons of comparatively small means can afford to wear them. The ruby has always been the favorite gem of all the Oriental nations. It was used as the standard for estimating values among the writers of the Old Testament. In ancient times rubies were so scarce that few except kings, high priests, and persons occupying other great positions could wear them. 18 AND 20 SOUTH PEARL ST., ALBANY, N. Y. Trays for Show-Cases and Windows, Fine Velvet Cases for Most of the Oriental rubies in Europe and Most of the Oriental rubies in Europe and America were obtained in Peru or Ceylon, but Badges, Bangles, Medals, Self-Inking Rubber Stamps, it is presumed that Burmah will supply the market in the future. Up to the present time rubies have been extracted from alluvial deposits, but attempts will now be made to obtain them from the rocks in which they are im-



BRONZES

137 N. THIRD STREET, PHILADELPHIA. Catalogues and Price Lists furnished to the Trade



MIRST, MOORE & WHITE, LIMITED.

JEWELRY, AT SELL TO THE RETAIL JEWELRY TRADE ONLY.

Manufacturer of Fine Velvet, Plush, and Morocco Cases for

On this they further said :-

"Surely thou bearest the finest silks." He replied :-

"I will pay custom for the silks." Then they said :-

"Surely it must be pearls that thou takest with thee."

And he answered only :--

"I will pay for pearls."

Seeing that they could name nothing of value bedded. for which the patriarch was not willing to pay custom, they said :-

"It cannot be; but thou open the box and "Young men, you are the architects of let us see what is within."

So they opened the box, and the whole land of body and soul. Take for your star, self-

doors, each of which was a single pearl.

And the precious gem, fit to adorn an em- smoke - don't swear-don't deceive - don't peror and to heighten the beauty of the fairest read novels-don't marry until you can supof maidens, this pearl of great price, perfect in port a wife. Be earnest-be self-reliant-be form and beauteous in lustre-this jewel of the generous-be civil. Read the papers-adverdeep, sought for at the peril of human life, and tise your business-make money, and do good paid for with the bread of ten thousands-it with it-love God and fellow-men-love truth sickens and dies and vanishes in a day. Every and virtue-love your country and obey its now and then we hear of a noble family, laws."

Prof. Porter to Young Men.

your fortunes. Rely upon your own strength

of Egpyt was illuminated by the lustre of reliance. Inscribe on your banner: 'Luck is Sara's beauty-far exceeding that of pearls! a fool; Pluck is a hero.' Don't take too much Hence pearls are repeatedly used in Holy advice-keep at your helm and steer your own Writ, also for solemn comparisons, and to de- ship, and remember that the great art of comnote the highest degree of perfection. In the manding is to take a fair share of the work. Old Testament, wisdom is praised as above Think well of yourself-strike out-assure pearls, and in the New Testament the King- your own position. Put potatoes in a cart dom of Heaven is compared to a pearl of great over a rough road and the small ones go to price, which when a merchant found it, he the bottom. Rise above the envious and went and sold all that he had and bought it. jealous, Fire above the mark you intend to Even the New Jerusalem was revealed to St. hit. Energy, invincible determination, with John under the figure of an edifice with twelve a right motive, are the levers that rule the world. Don't drink - don't chew - don't

GEO. F. WHELPLEY, Seals, Dies, Etc.

Jewelry, Silverware, Etc. Diamond Jewelry. 14 and 16 John Street, near Broadway, New York. Western Agency, Merker & Co., 82 State Street, Chicago, Ill.

AMERICAN WATCH WHOLESALE SALESROOM WHOLESALE AGENTS FOR ROGERS & BRO. FLAT AND HOLLOW WARE. AVID F. CONOVER & CO., SUCCESSORS TO WM B. WARNE & CO., S. E. Corner Chestnut and Seventh Streets, PHILADELPHIA, PA.

WHOLESALE ONLY.



IN GOLD, SILVER, STEEL, ABUNDEL, ROYAL ALLOY, NICKEL, NICKEL-PLATED, ZYLONITE, RUBBER, &c. WE HAVE A LARGE STOCK ON HAND OF →* GOLD EYE-GLASSES AND SPECTACLES. ** OPERA GLASSES. SAMPLES SENT ON SELECTION.

THE STOLEN DIAMONDS.

tured

One evening when Napoleon I. was in all his glory there was a grand gala production at the Grand Opera. How many reigning kings and princes occupied the boxes and balconies it is impossible for me to estimate; the were filled with noblemen.

The Princess Borghese, the beautiful and accomplished Pauline, sparkled and shone in her box, eclipsing all around her by the splendor of her loveliness, as the sun does its satellites by the brilliancy of its rays. On her neck she wore a necklace, the diamonds and massive pearls of which, intertwined and blended with transcendent art, still further enhanced her incomparable brilliancy. When she entered her box there was a murmur of general admiration.

The imperial box opened in its turn, and the master of the world appeared, saluted by these kings and princes with a formidable cry of "Vive l'Empereur !" It was generally remarked that the empress seemed unable to take her eyes off her sister-in-law, and appeared to be fascinated, dazzled, like the other occupants of the vast auditorium, with the marvelous brilliancy of the necklace. Suddenly the box of the Princess Borghese opened, and a young major presented himself, wearing the brilliant blue and silver uniform of the aides-de-camp of the emperor's staff. "Her Majesty, the Empress," said he, bowing low, "admires the wonderful necklace worn by your Imperial Highness, and has expressed the second act. The entr'acte came and to help himself. passed away. The third act concluded in its To his great astonishment-for he was unnecklace was not returned

The Princess Borghese took this for a char- only saying :-acteristic freak of Marie Louise's. Next day, however, she asked if the necklace had pleased to shut up." the empress, and whether she had found the setting and arrangement of the jewels to her taste. The empress was thunderstruck, for she had not seen it, and had sent no officer for it as described. Napoleon deigned to mix himself up in the affair. He had the names of all the ascertained. And then one by one, under some pretext or other, he had them called before his sister. She did not recognize one of them. They summoned the Prince of Otrante, Minister of Police. A long council was held. Everything possible was done, but in vain. The unfortunate Fouche was ready to tear his hair in despair. He set his keenest bloodhounds at work. His best detectives were literally worn off their legs, without result. As to their imperial master, he was literally bubbling over with rage, and was almost on the point of thrashing his chief of police. But neither the necklace (which was worth nearly a million) nor the audacious thief was ever seen again.

for artistic combination with other gems. The more elegant variety is the amber or Sharp Trick of a Thief Who Was Never Cap- golden, just mentioned; but the specimens found in the Connecticut mine are of other and brilliant colors, allowing of the most

handsome positions in jewelry sets. When speaking of the oil wells, I should have mentioned, out of justice to his generosity and as a tribute to the record of good deeds, that the very seats usually occupied by the claquers his interest in the land, made a gift of oneeighth of the stock to the former proprietor, the poor debtor.

> THE champion liar hails from Pike county, Ind., and the following yarn is probably the greatest effort of his life: "A young lady who was watching my binding harvester at work fell upon the table and was carried up with the grain. As the girl was about the size of a bundle, the machine did not recognize the difference, and so she came through with a neat little string around her waist. One of the harvest hands caught her as the machine kicked' her out and set her on the ground right side up, when it was found that she had been more frightened than hurt." Now if this veracious agriculturist had only added that the machine threshed the young woman and shook from her face the flour without which no selfrespecting woman's toilet is complete, and barreled said flour for market by the aid of the young woman's hoops, his story would possess a completeness and symmetry which would cause it to pass current everywhere as a great and unapproachable work of art.

A SUBURBAN gentleman tells this story, the liveliest desire to examine it closer." The apropos of the chestnut: He was sitting in his beautiful Pauline made a sign to one of her library the other day, eating some chestnuts, ladies of honor, who unclasped and detached when a book agent was ushered in. The the necklace from the princess's neck and glib-tongued canvasser opened his book, and placed it in the hands of the staff officer. as he was rattling along at a rapid rate, the The latter bowed gravely and disappeared. gentleman, to show his hospitality, pushed This episode occurred toward the middle of the dish of nuts toward him, with the remark

turn. The fourth act came and passed, and mindful of the interpretation that might be the entertainment concluded, yet still the placed upon the act-the agent stopped, gathered up his books, and shot from the door,

"That's an awful mean way to tell a man U

THE husbands of Washington Territory are beginning to kick against their wives going on juries. One of them writes as follows to his local paper: "My wife has been gone away on the jury four days. I have not had staff officers on duty the preceding evening a square meal since she left. My children are crying for bread, and everything goes wrong. I am hungry, angry, and all out-ofsorts in every respect. I write this to say that whoever advocates woman's rights in my presence again must be a very large man, and if the sheriff comes after my wife again he had better bring a posse with him, for my shotgun is loaded and I will not hesitate to use it."

> "BRAINS command hammer and hand," is now the cry. Knowledge is available to gain supremacy. The great complaint of the laboring classes has no basis of fact as against society. It would be a great thing for the youth of the land if all that was not abso-



11

NEW YORK. Cor. John Street,

MANUFACTURERS OF A

FICKLE FORTUNE

Lucky New Yorker.

A propos of gems, the discovery of a mine of what is needed. beryls in Connecticut illustrates the good fortune which attends some people. Like the youngster who went fishing for "catties" and hooked a mess of trout, the chief owner of this mine had bought it for its show of mica,a valuable article of itself in this country, which has imported heretofore almost all that its great needs required. The owner, a banker in Olean, had already had a fortune thrust upon him by an insolvent debtor, who settled part of the claim against him by giving the banker a deed to some ordinary farming land on the outskirts of that city. The land proved to be part of the newly-discovered oil region near Olean, and was so rich in "gusher" that the banker is the receipient of an immense royalty from the company which developed its resources. A chance investment in the mica mine has been attended by similar luck. The beryls taken out include the variety known as golden beryls, which possess wonderful lustre and rank as precious stones only two places below diamonds. One of the great The attraction of the beryl is in its capacity music.

lutely essential could be left out of their education and they could be instructed instead to use their brains as thinkers to acquire the Thrusts her Honors Thick and Fast Upon a power of understanding, of using what John Burroughs calls the steady aim of the eye. The cultivation of the thinking powers is

> IT is funny to see the meeting between a smart drummer and a hotel clerk who wears a diamond pin. The clerk knows the drum mer does not own the earth, though he acts as if he did; and the drummer knows that the clerk does not own the hotel; but neither of them will give up and acknowledge that they do not amount to much, collectively or separately.

> "PROHIBITION Bibles," it is said, are having a large sale in Atlanta, Ga. They are described as "a very smart imitation of a book which encloses a bottle of good whisky. By touching a spring at one end the other opens, and the neck of the bottle bobs up serenely. They cost \$1 each. A man could walk up a church aisle with one under his arm without being suspected of anything but deep piety."

THE big diamond in the end of Ole Bull's jewelry firms in New York had its gem ex- violin bow was a present from the Duke of pert examine the specimens. Upon his report Devonshire, a deaf old gentleman, for whose the beryls were mounted, and they have now pleasure the violinist played half an hour with been introduced into the trade as the latest a string connecting the instrument and the fashionable ornament in the jewelry line, hearers' teeth, whereby the latter heard the

FULL LINE OF 14-K GOLD JEWELRY, DIAMOND MOUNTINGS,

THE "ONE-PIECE" COLLAR BUTTON.

- AND -



These buttons are not soldered, but made in ONE PIECE, and, therefore, are Hard Spring Metal,

THEY CANNOT BREAK.

Sample Lines "On Mem." to Parties Furnishing Satisfactory Reference.

A sample of the pattern or style of these buttons, made of Oroide metal, will be sent to any Jeweler requesting it, upon mentioning the KEYSTONE. We do NOT make the buttons in Oroide FOR SALE; only for purpose of illustration.



FACTORY, NEWARK, N. J.

ENGRAVER'S BENCH.

A PEEP AT HIS SANCTUM, AND THE TOOLS USED.

the Improved Appliances and Methods of the Art, by an Experienced Engraver.

appliances needed for the work. I did not tionerscan recommend from experience. they would be unable to undertake.

in materials and methods which will lighten rator. So perfectly does the axle fit its rehis labor and enhance his skill and necessarily ceptacle in the body, that, if the top portion be removed and again replaced on the Substance From Which the Modern Cameo the value of his performance.

for working with the graver, but merely as a bench with most of the implements used in stands solid on the bench, and is well adapted method of executing certain kinds of lettering the art arranged promiscuously thereon. In to hold various articles while being engraved, or inscriptions on soft metal by those possess- practice, of course, but few of these tools and but is still inferior in general points to the ing a limited knowledge of engraving. Such appliances are commonly found on the bench, other. It has also an extra wooden turnpersons, I considered, might be enabled in as represented, but from time to time they all table, as shown, in this way holding a pad; this way to perform work which, in the usual come into requisition. The professional can- also a wooden screw-clamp for holding cups, order of things and by the regular method, not well dispense with a goodly variety of etc., providing a great convenience. tools and accessories, because different kinds Other appliances are the cannon-ball clamp;

The learner is often at a loss in knowing stem, the air will be confined so as prevent what he needs to adequately bring his educa- the upper portion from descending on the tion into practical utility. He wishes to know pivot for several minutes. The upper disc, or Practical Suggestions to Amateurs Concerning what the professional does, how he does it, clamp, is fitted with twenty receptacles for and what he does it with. He may be willing holding as many pegs for keeping watch-cases to use advanced means in keeping with pro- or other small articles firmly in position. gressive ideas, but in order to do this he must This stand is a marvel of mechanical utility. In my last contribution I endeavored to ex- learn from experienced artisans just how they There are other stands, more or less complete, plain to the readers of the KEYSTONE who conduct their operations. The student of all very useful to the practical engraver, but are interested in engraving the comparative engraving may be a long time finding out none so automatic in its arrangement as the merits of the process, which I arbitrarily desig- for himself what he needs in the art and how one under notice. On the left side of the illusnated as scribing, and gave an illustration of his art should be practiced, but may be prompt tration may be seen a representation of an exthe operation, and also for the few simple to adopt the course which successful practi- cellent article in this line, somewhat similar in general outline to the former. It is handrecommend the process as a good substitute Our illustration represents an engraver's somely nickel-plated, neat in appearance, and



the requirements of the practical and profes- for different and distinct appliances at the stones; small hand grindstone beneath the of a design is hidden under a crowd of minute sional engraver, giving to the reader who is bench. The engraver who confines himself bench; box for holding an assorted set of felicities. It is because the Neapolitan worktractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the to one branch of the trade, such as coffin-tractable enough to learn a glimpse into the trade of the trade, such as coffin-tractable enough to learn a glimpse into the trade of the trade, such as coffin-tractable enough to learn a glimpse into the trade of the tr sanctum, so to speak, of the orthodox work- plates or silverware, does not need an accumu- of tools; the coin-drilling machine, fastened that their work ranks so highly as it does; man, from which he may learn what tools and lation of apparatus, but, of course, he requires to the bench; the ordinary and new eye-glass but even they fall into it at times, especially accessories are useful in the business. Some the necessary gravers, pads, oilstone, sharpen-stands; burnisher; scraper; steel point; wood-in their portraits, the cheapest of which are of these are, of course, not absolutely essential ing instrument, transfer wax, etc.; and it is marker; flexible steel rule; various kinds of usually also the best. to the amateur, or to the jeweler who does his all the better if he possesses a good eye-glass, gravers; dividers; case of compasses; wax The shells used by the cameo cutter are of own engraving, but the engraver who lives by an improved engraving-block or stand, and preparation; hand-buffs; alphabet books; three kinds. The most valuable, Casis tube-

CAMEO CUTTING.

is Taken, and the Process.

The substance of which a modern cameo is made, is a piece of sea-shell. Every one must have noticed that, while the outside of many shells is rough and unseemly, the interior is perfectly polished, and often of a brilliant color. If the shell be broken, the way in which the two layers lie upon and pass into each other may be clearly seen. The species used by the trade will be described farther on, but we may here premise that they are chosen on account of the thickness and hardness of the layers, of the contrast of color between them, and the presence of knobs on the exterior surface, which render it possible to work in relief.

When a cameo is begun, a piece of the shell, rather larger than the ornament is intended to be, is cut out and affixed to a wooden holder by means of a substance which looks like a coarse kind of sealing-wax, and seems to the touch as firm as stone. but at once yields to any high degree of heat, The inner surface of the shell is of course the lowest, and on the gray outside the master draws a rough outline of the design, and places the work in the hands of an apprentice, who reduces the knob by means of a file to the requisite height, and with the same instrument removes all the gray matter that lies outside the boundary lines, and dresses the whole of the irregular surface. In this condition a cameo looks like an irregular piece of chalk rising out of a small plate of colored glass. It is now returned to the master, who again draws the design in pencil upon it, but more carefully this time, as the places in which the dark background has to be seen through the white mass must be indicated; and from him it passes to another apprentice or workman, who has already learned the use of the bulino or burin. This is an instrument which is present in at least twenty forms in every workshop of importance-the coarser almost resembling a stonecutter's tool; the finer are nearly as delicate as those used by an engraver. Thus, from the beginning to the end, the work is always submitted to the master's eye, and always passes into more skillful hands, until he himself adds the finishing touches.

The great fault of most modern cameos is an excessive fondness for detail. The more labor that is spent upon a piece, the more valuable it becomes. Besides this, the master takes a pleasure in the exercise of his skill; he is proud of showing his work through a lens and pointing out the fitness of the single lines, and the perfection of the whole execu-In my present article I shall try to illustrate of work require different treatment and call the graver-sharpening instruments, with oil-his best customers, and so the general purpose

his art requires every appliance that is calcu-also a few other articles, which will suggest alcohol; student lamps; vise, and other rosa, is known in the trade as Conchiglia his art requires every appliance that is calcu- also a lew other altereds, when all ougst alcohor, student lamps, vise, and other rosa, is known in the trade as Conchiglia lated to facilitate rapid and perfect workman- themselves to the practical learner, and will be small tools—all of which are useful adjuncts serpentina. When the shell is perfect, the The writer has been giving practical lessons houses, or which may be obtained of some The cabinet case, with various graduated lower one seems at the first glance to be evternal layer is of a spotless white, while the being sometimes paid for a single one. In Our readers will perceive from the above imperfect examples, the white layer is either of the rest can be used, and then only for in-

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ship.

followed the spirit of the instructions therein business. set forth, in their pursuit of self-culture. I In the above engraving a student is repre-

docile and anxious to learn than their older KEYSTONE or similar trade organs, and by The learner may be discouraged by the prosbrethren, may possess a very natural curiosity practice and study contrive to acquire a credit-pect of having to purchase so many articles as to what an engraver's workshop is like and able knowledge of their business. what apparatus usually constitute a complete Near the pad on which rests the plate which have already stated that most learners need what apparatus usually constitute a complete outfit. I will try to delineate, for the benefit the student is engraving is a very useful in-but a few articles with which to learn the necessary taxation. Business is improving its principal adjuncts; for to enumerate in de- ence. It is an improved engraving stand. tail everything employed by the engraver and differs from those hitherto in use by the would needlessly enlarge this article, and re- facility with which it can be used and the quire more valuable space than we can reason- actual saving of labor which its use effects, ably expect the indulgent editor could devote and which alone in a brief time more than to one subject. To the skilled artisan, every- compensates for the outlay. For holding thing calculated to perform work in the brief- rings, spoon, medals, badges, and other artithing calculated to perform work in the state ing, speak, according to be firmly fixed during est possible time, and in a perfect manner, is a the process of angraving and yet easily in the state atome exceeding the toxet of an engraving set. In choosing tools, always get sus returns, to fully 8 per cent. of the gross progress in most arts, especially in those re- turned to answer the motion of the tool, it is quiring manual dexterity. While the old unrivaled. The upper portion, which is furfogy is content to laboriously and slowly exe- nished with adjustable discs, turns with

found in any catalogue or price-list of material to the business.

on engraving in art journals for years, and live engravers, who, being the best judges of drawers, divided into compartments of sev-black. It is, in fact, of a dark-gray tint, more recently in the KEYSTONE; also has tools and apparatus, make a point of furnish-eral sizes, having one general door furnished something like unpolished steel, with brown published text-books, which no doubt have ing supplies, as well as advising those who with lock and key, is an extremely useful reflections. But such specimens are exceedbeen of some assistance to those who have need them what they want in their line of article in which to keep fine tools and requi- ingly rare, as much as twenty-five frances

have said very little in this journal or the sented at work; but it is not every student what a number of things go to constitute the too thin or is spoiled by yellowish spots, American Jeweler about the bench and the who is thus favored with not only a full line outfit of a practical engraver's bench; and while the black one is wanting in thickness *American Jeweter* about the belief and the black one is wanting in thickness improved devices with which the enterprising of working tools and materials, but personal though our illustration of the chief appliances and hardness. These shells are bought by workmen of our own day surround them- supervision from a teacher qualified by long needed in the business is necessarily imper- the hundred at the price of from six to eight selves. To those not fully initiated in the experience to instruct him in the proper use fect, yet the learner to whom such a revela- hundred frances. About a third of the number business, a brief description and exposition of of everything connected with the art. Many tion is a novelty may be interested in what are worthless, while only single parts of many these matters may not prove uninteresting. aspiring young men have to pick up what we have contrived to present. My young readers, especially, who are more they can learn from articles like those in the

cute work in the style and with the instru- mathematical precision on an upright pivot, ments of by-gone days, the practical and pro- fixed on a solid base, and can be raised or you better, than any journal in the Trade. years, and yet public burdens remain unnecesgressive artist seizes upon every improvement lowered to suit the convenience of the ope- Only 25 cents a year. Cash in advance.

sites not in constant use.

One word more about the item of expense. ferior articles. as we have enumerated or described. We business, and then only those needed for his that is, it is not quite as bad as it was-but it particular line of engraving. It is only the is yet far short of the activity of good times. professional who takes advantage of every National taxes are about \$1,000,000 a day; device which helps him to accomplish nice work with ease and expedition. Compared with a watchmaker's outfit, the cost of en- taking the whole country, foot up nearly gravers' tools is very moderate, a watchthe best, as inferior ones are dear at any value of the annual products of the country-G. F. WHELPLEY.

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CONGRESS should understand that the bounty taxes for the protected industries are over \$1,750,000 a day; state and local taxes, another \$1,000,000 a day. National and state over 8 per cent. on \$10,000,000,000. Prices for everything raised and turned into money

sarily high.