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CATALOGUE OF
A COLLECTION OF
PRECIOUS AND ORNAMENTAL STONES
OF NORTH AMERICA

EXHIBITED AT THE PARIS EXPOSITION, 1889
BY TIFFANY & CO.
NEW-YORK



NEW-YORK
THE DE VINNE PRESS
1889

U. S. National Museum

Gift of
Otis J. Mason,
Curator of the Division of Ethnology

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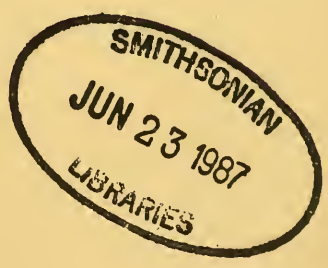
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This collection was formed for the purpose of illustrating the occurrence of precious and ornamental stones in North America, and contains all the more important varieties, in their natural state, and in cut examples.

TIFFANY & CO.
Union Square, New-York.



CATALOGUE.

- 1 Gold, crystallized, flattened octahedrons on Quartz, $3\frac{1}{2} \times 2$ inches. Grass Valley, California.
- 2 Gold, crystallized on Quartz Crystals, $2\frac{1}{2} \times 1\frac{3}{4}$ inches. Grass Valley, California.
- 3 Gold, crystallized on Quartz Crystals, 4×2 inches. Grass Valley, California.
- 4 Placer Gold, Sutter's Mill, Eldorado County, California. Part of the first gold, found by John Marshall, July 19 and 20, 1849.
- 5 Gold, crystallized, flattened octahedrons, $1\frac{1}{2} \times 1$ inch. Eldorado County, California.
- 6 Gold Quartz, four specimens, with polished surface, $4 \times 5 \times 4$ inches, vein of gold, 3×2 inches. Eldorado County, California.
- 7 "Wire-Gold" on Quartz, in threads one inch long, formed of elongated and distorted crystals, 3×2 inches. Santiam Mine, Oregon.
- 8 Gold (Native), in strings in limonite ($7\frac{3}{4}$ dwts.), 1×2 inch. Victoria Mine, Colorado.
- 9 Gold (Native), crystallized wires ($18\frac{1}{2}$ dwts.), $2\frac{1}{4} \times 1\frac{1}{4}$ inch. Victoria Mine, Colorado.

- 10 Gold (Native), flat plate ($13\frac{1}{4}$ dwts.). Victoria Mine, Colorado.
- 11 Gold (Native), wires in quartz (26 dwts.), $1\frac{3}{4} \times 1\frac{1}{2}$ inches. Victoria Mine, Colorado.
- 12 Gold (Native), flat plate ($6\frac{3}{4}$ dwts.), 2×1 inch. Victoria Mine, Colorado.
- 13 Gold (Native), sheet of crystals in wires. Ontario Mine, Colorado.
- 14 Gold in limonite, 1×1 inch. Colorado.
- 15 Gold (Native), on turquoise, 2×2 inches. Los Cerillos, New Mexico.
- 16 Gold (Native), two specimens, irregular sheets ($1\frac{3}{8} \times 1$) ($\frac{4}{8} \times \frac{1}{2}$). McDowell County, North Carolina.

GOLD AND SILVER ORNAMENTS FROM INDIAN MOUNDS.

- 17 Gold, ornamented disk, circular, $3\frac{1}{4}$ inches diameter, weighs 17 dwts. Lake Butler, Orange County, Florida.
- 18 Gold, arrow-shaped object, $3\frac{1}{4} \times 3\frac{1}{4}$ inches, weighs 75 dwts. McDonald Station, Orange County, Florida.
- 19 Gold ornament (a casting), $2\frac{3}{8} \times 1$ inch, weighs $61\frac{1}{2}$ dwts. Lake Apopkee, Sumter County, Florida.
- 20 Gold circular disk with perforation in center, 1 inch, $13\frac{1}{2}$ dwts. Lake Tohopekaliga, Orange County, Florida.
- 21 Silver ornament, $2\frac{3}{8}$ inches diameter, $9\frac{1}{2}$ dwts. Lake Butler, Orange County, Florida.

- 22 Silver ornament, triangular with perforations, $3\frac{1}{2} \times 2\frac{1}{2}$, 4 dwts. Lake Butler, Orange County, Florida.
- 23 Diamond, "the Dewey," model of, found near Manchester, opposite Richmond, Virginia, 1855. Weight, $23\frac{1}{2}$ carats. The largest diamond ever found in the United States.
- 24 Diamond, model of, found in 1887, near Atlanta, Georgia.
- 25 Diamond, $\frac{7}{16}$ carat. Found May, 1888, on Cabin Fork Creek, near Montpelier, Kentucky.
- 26 Diamonds, four small octahedrons, total weight $\frac{1}{32}$ of a carat, found in the gold stamps, Volcano, Amador County, California.
- 27 Gold sand, in which diamonds have been found at Cherokee Flat, California.
- 28 Gold sand, in which diamonds have been found, with monazite, zircon, etc. Brindletown Mine, Burke County, North Carolina.
- 29 Diamond, model of, weighing $3\frac{1}{4}$ carats, found in June, 1866, at a spring at Dysartville, McDowell County, North Carolina.
- 30 Earth from the spring where the above diamond was found in 1886, at Dysartville, McDowell County, North Carolina.
- 31 Peridotite, three specimens, Elliott County, Kentucky. At this locality this peridotite incloses pieces of carbonaceous shale, as at Kimberly, South Africa, but it is not so rich in carbon, and no diamonds have been found there.
- 32 Iridosmine, grains. Trinity River, Oregon.

- 33 Iridosmine, grains. Trinity River, California.
- 34 Sperrylite, minute crystals (arsenide of platinum). Sudbury, Ontario, Canada.
- 35 Silver, sheet of fine white crystals, $3 \times 1\frac{1}{2} \times 1$ inches. Ontonagon District, Michigan.
- 36 Silver, sheet of crystals with calcite, $2 \times 1\frac{1}{2}$ inches. Minnesota Mine, near Rockland, N. S.
- 37 Silver and Copper, group of crystals on copper, $3 \times 2 \times 2$ inches. Houghton, Michigan.
- 38 Silver, brilliant slab, intermixed with copper, cut and polished, $4\frac{1}{2} \times 3 \times 1$ inches. National Mine, Ontonagon District, L. S.
- 39 Silver (Native), spray of crystals on, $4 \times 1\frac{3}{4}$ inches. National Mine, Ontonagon District, Michigan.
- 40 Ruby, weight $\frac{31}{8}$ carat. Jenks' Mine, Franklin, Macon County, North Carolina. One of the finest of the few found at this locality.
- 41 Ruby, $1\frac{1}{8}$ carat, Franklin, Macon County, North Carolina.
- 42 Ruby, rich red crystal, $\frac{3}{5} \times \frac{1}{5}$, on matrix, $3\frac{1}{2} \times 3$. Vernon, Sussex County, New Jersey.
- 43 Ruby Corundum, two stones, cut *en cabochon*. Cullakenee Mine, Clay County, North Carolina.
- 44 Ruby Corundum. West's Mills, Iredell County, North Carolina.
- 45 Ruby Corundum, cleavable, rich red, part of a crystal, from near Atlanta, Georgia.
- 46 Ruby Corundum, vein of cleavable, red in smaragdite. Buck Creek, Clay County, North Carolina.

- 47 Ruby Corundum, polished piece with transparent spots, claret red, $1\frac{1}{2} \times 1\frac{1}{2}$. Franklin, Macon County, North Carolina.
- 48 Sapphire, violet, polished piece with transparent spots. Franklin, Macon County, North Carolina.
- 49 Sapphire, cut stone, $\frac{3}{4}$ carat (first one found in the United States). Franklin, Macon County, North Carolina.
- 50 Sapphire, collection of crystals. Jenks' Mine, Franklin, Macon County, North Carolina.
- 51 Sapphire (blue and green crystal) $4\frac{1}{2} \times 2\frac{1}{2}$, with clear spaces of green *Oriental emerald*, that would furnish gems 1 to 20 carats each. Weight, 16 ozs. Troy. Franklin, Macon County, North Carolina.
- 52 Sapphire, blue and yellow, polished section of crystal, in bands arranged hexagonally, $3\frac{1}{2} \times 3\frac{1}{2}$. Jenks' Mine, North Carolina.
- 53 Star Sapphire, asteriated crystal with polished end, fixed star, $1 \times 3\frac{1}{8}$ inches. Franklin, Macon County, North Carolina.
- 54 Star Sapphires, four, brown, cut *en cabochon*, $21\frac{2}{3}$ carats. Franklin, Macon County, North Carolina.
- 55 Sapphire crystals, nineteen. Culsagee, Clay County, North Carolina,
- 56 Sapphire, blue, cleavable. Iredell County, North Carolina.
- 57 Sapphire crystals, seven small. Eldorado Bar, near Helena, Montana. Found in the riffle of sluice boxes in hydraulic gold mines.

- 58 Sapphires, green, six cut stones, $12\frac{11}{16}$ carats.
Helena, Montana.
- 59 Chrysoberyl, small crystals in matrix. Stow, Maine.
- 60 Chrysoberyl, polished section of a large crystal.
Stow, Maine.
- 61 Chrysoberyl, crystal in matrix. Haddam, Connecticut.
- 62 Chrysoberyl, crystal in matrix. Greenfield, Saratoga
County, New York.
- 63 Spinel, black, group of octahedral crystals. Orange
County, New York.
- 64 Spinel (var. Gahnite), green. Delaware County,
Pennsylvania.
- 65 Topaz, transparent, sherry-colored crystal, 3 ozs.
12 dwts., $1\frac{4}{5} \times 1\frac{3}{5}$ inches. Cheyenne Mount-
ain, Colorado.
- 66 Topazes, light sherry-colored, brilliant, cut, $193\frac{1}{16}$
carats. Cheyenne Mountain, Colorado.
- 67 Topazes, dark sherry-colored, brilliant, cut, $116\frac{3}{8}$
carats. Cheyenne Mountain, Colorado.
- 68 Topaz, light sherry-colored, cut, 20 carats. Chey-
enne Mountain, Colorado.
- 69 Topaz crystal, transparent, colorless. Crystal Peak,
Colorado.
- 70 Topaz, two crystals, white. Stoneham, Maine.
- 71 Topaz crystal. Bald-Face Mountain, North Chatham,
New Hampshire.
- 72 Topaz crystals, six. Bald-Face Mountain, North
Chatham, New Hampshire.
- 73 Phenacite, white type-crystal, $1\frac{1}{5} \times \frac{3}{5}$ inches. Chey-
enne Mountain, Colorado.

- 74 Phenacite, five small crystals. Florissant, Colorado.
- 75 Phenacite, white crystal on microcline (amazon stone). Florissant, Colorado.
- 76 Phenacite on Beryl. Mount Antero, Colorado.
- 77 Phenacite, three crystals. Bald-Face Mountain, North Chatham, New Hampshire.
- 78 Smoky Quartz crystal, with crystal of phenacite. Bald-Face Mountain, North Chatham, New Hampshire.
- 79 Emerald, double-terminated crystal, one of the largest found, weight, 8 ozs. 3 dwts., $3\frac{1}{10} \times 2$ inches, little value as a gem. Stony Point, Alexander County, North Carolina.
- 80 Emerald, crystal, light-green $3\frac{2}{5} \times \frac{2}{5}$ inches. Stony Point, Alexander County, North Carolina.
- 81 Emerald, doubly terminated with impressions of ankerite, $2\frac{1}{2} \times 1\frac{1}{3}$ inches. Stony Point, North Carolina.
- 82 { Emerald, crystals, seven. Stony Point, North Carolina.
 { Emerald crystal. Stony Point, North Carolina.
- 83 Emeralds, four cut stones, light green, one large, $1\frac{1}{16}$ carat, three small, $1\frac{1}{16}$ carat. Stony Point, North Carolina.
- 84 Emerald, with implanted crystal of rutile. Stony Point, North Carolina.
- 85 Emerald with a coating of pyrite crystals. Stony Point, North Carolina.
- 86 Beryl, var. aquamarine, sea-blue, brilliant, cut, $133\frac{2}{3}$ carats. Stoneham, Maine.

- 87 Beryl, var. aquamarine, cut, $1\frac{1}{3} \times \frac{2}{3}$ inch. Stoneham, Maine.
- 88 Beryls, five cut stones, $28\frac{11}{32}$ carats. Stoneham, Maine.
- 89 Beryl, var. aquamarine, small cut gem, deep blue, and broken pieces of crystals. Portland, Connecticut.
- 90 Beryl crystal on opaque prism, with transparent termination. Haddam, Connecticut.
- 91 Beryl, highly modified crystal, $\frac{2}{3} \times \frac{1}{5}$ inch. North Carolina.
- 92 Beryl, var. aquamarine, eight blue crystals, found at an altitude of 14,000 feet; locality covered with snow for the entire year. Mount Antero, Colorado.
- 93 Beryl, var. aquamarine, thirteen cut stones, light blue, $65\frac{5}{8}$ carats. Mount Antero, Colorado.
- 94 Beryl, yellow, blue, green, and white transparent pieces. New Milford, Litchfield County, Connecticut.
- 95 Beryl, yellow crystal. New Milford, Litchfield County, Connecticut.
- 96 Beryl, yellow, blue, and green, transparent fragments. New Milford, Connecticut.
- 97 Beryls, fourteen cut stones, yellow, $16\frac{19}{32}$ carats.
- 98 Beryls, yellow, two, $14\frac{13}{16}$ and $3\frac{13}{16}$ carats.
- 99 Beryl, yellow, transparent fractured crystal in Quartz. Avondale Quarry, Pennsylvania.
- 100 Beryl, yellow, cut stone, $16\frac{3}{8}$ carats. Avondale Quarry, Pennsylvania.

- 101 Beryl, yellow, small cut stone, $1 \frac{1}{3} \frac{3}{4}$ carat. Round Mountain, Albany, Maine.
- 102 Beryl, white crystal, $1 \times \frac{1}{2}$ inch. Acworth, New Hampshire.
- 103 Beryl, white, small cut stone, $2 \frac{1}{4}$ carats. Burke County, North Carolina.
- 104 Beryl, white spheres, each $1 \frac{1}{8}$ inch diameter. Branchville, Connecticut.
- 105 Garnet, var. essonite, group of small crystals. Warren, New Hampshire.
- 106 Garnet, var. spessartite, hyacinth yellow and red, crystalline mass, 1 inch square. Amelia Court House, Virginia.
- 107 Garnet, var. spessartite, crystalline mass, reddish brown, $4 \times 2 \frac{1}{2}$. Amelia Court House, Virginia.
- 108 Garnet, var. spessartite, crystalline mass, *essonite yellow*, 4×3 inches. Amelia Court House, Virginia.
- 109 Garnets (spessartite), twenty-three cut stones, $161 \frac{7}{8}$ carats. Amelia Court House, Virginia.
- 110 Garnet (spessartite), cut stone, $96 \frac{1}{8}$ carats. Amelia Court House, Virginia.
- 111 Garnet (ruby), cut stone, $4 \frac{1}{8}$ carats. Fort Defiance, Arizona.
- 112 Garnets, var. pyrope, rounded grains often found on ant-hills and scorpions' nests. Navajo Reservation, New Mexico.
- 113 Garnets, one hundred cut stones, red (so-called "Arizona rubies"), $89 \frac{1}{2} \frac{5}{8}$ carats. Navajo Reservation, New Mexico.

- 114 Garnet (pebbles). Concord, Delaware County, Pennsylvania.
- 115 Garnet, var. almandite, dodecahedron, weighing nearly fourteen pounds, $7 \times 4 \times 5$ inches. Ruby Mountain, Salida, Colorado. Largest crystal ever found at the locality.
- 116 Garnet dish cut from almandite garnet found at Salida, Colorado.
- 117 Garnet, var. almandite, transparent piece. Lewis County, New York.
- 118 Garnet, crystals in mica schist. Stickeen River, Alaska.
- 119 Garnets (almandite), two loose crystals. Stickeen River, Alaska.
- 120 Garnet, cut stone. Stickeen River, Alaska.
- 121 Garnet, var. topazolite, two specimens with malachite and azurite. Tulare County, California.
- 122 Tourmaline, section of crystal, green exterior with white and red center, $1\frac{2}{3}$ inch diameter. Paris, Maine.
- 123 Tourmaline, var. achroite, white crystal, $1\frac{3}{5} \times 1\frac{1}{5}$ inch. Mount Mica, Paris, Maine.
- 124 Tourmaline, var. indicolite crystal, deep blue, 4×2 inches. Paris, Maine.
- 125 Tourmaline. Mount Mica, Paris, Maine.
- 126 Tourmalines, green, six cut stones, 25 carats. Mount Mica, Paris, Maine.
- 127 Tourmaline, var. rubellite, cut stone, $11\frac{1}{3}\frac{1}{2}$ carats. Mount Mica, Paris, Maine.
- 128 Tourmalines, five (two pink, three lavender), $10\frac{3}{8}$ carats. Mount Apatite, Auburn, Maine.

- 129 Tourmaline, terminated crystal, $4\frac{3}{8}$ inches long. Auburn, Maine.
- 130 Tourmaline, pink crystal on Quartz. Auburn, Maine.
- 131 Tourmaline, pink crystal on Quartz. Auburn, Maine.
- 132 Tourmalines, two cut stones, green, $11\frac{27}{32}$ and $4\frac{11}{16}$ carats. Auburn, Maine.
- 133 Tourmaline, crystal, green and red. Auburn, Maine.
- 134 Tourmaline, crystal, lavender. Auburn, Maine.
- 135 Tourmaline, pink crystal. Auburn, Maine.
- 136 Tourmaline, white (achroite), transparent terminated crystal. Dekalb, St. Lawrence County, New York.
- 137 Tourmaline, brown crystal, 3×2 inches. Gouverneur, St. Lawrence County, New York.
- 138 Tourmaline, brown crystal. Gouverneur, New York.
- 139 Tourmaline crystal, brown. Gouverneur, New York.
- 140 Tourmaline crystals, black. Pierrepont, New York.
- 141 Zircon, small, brilliant crystals. *Capt. J. C. Mills' Mine*, Brindletown, Burke County, North Carolina.
- 142 Zircon crystal, green. Town of Fine, St. Lawrence County, New York.
- 143 Zircon, four crystals. Egansville, Renfrew County, Canada.

- 144 Spodumene, var. hiddenite ("lithia-emerald"), green, four cut stones, weight, $2\frac{2}{3}$ carats. Stony Point, North Carolina.
- 145 Spodumene, pink, small cleavage. Branchville, Connecticut.
- 146 Peridot, olivine or chrysolite, fifty-three grains, locally called "Job's Tears." Navajo Reservation, New Mexico.
- 147 Peridots, cut stones (olivine, chrysolite), green, $14\frac{11}{32}$ carats. Gallup, New Mexico.
- 148 Peridot, grains taken from the meteorite that fell on Glorietta Mountain, New Mexico.
- 149 Peridots (two cut stones), from the olivine taken out of the meteorite found at Eagle Station, Carroll County, Kentucky.
- 150 Peridot in meteoric iron, found on the altar of one of the Turner Group of Indian mounds. Little Miami Valley, Ohio.
- 151 { Quartz Crystals, in the calciferous sand-rock, eight specimens. Little Falls, Herkimer County, New York.
- 151 { Quartz Crystals, from the calciferous sand-rock. Little Falls, Herkimer County, New York.
- 152 Quartz Crystals, four groups. Middleville, New York.
- 153 Quartz, $4\frac{2}{3} \times 3$ inches. Large group for the locality. Little Falls, Herkimer County, New York.
- 154 Quartz in the calciferous sand-rock. Little Falls, Herkimer County, New York.
- 155 Quartz Crystals (500), weight 10 carats, or over 7500 to the ounce. Little Falls, Herkimer County, New York.

- 156 Quartz Crystals (three) groups. Crystal Mountain, Arkansas.
- 157 Quartz, rock crystal, rolled pebble, found in Washita River, Arkansas.
- 158 Amethyst, deep purple, cut stone, $34 \frac{1}{8}$ carats. Deer Hill, Stow, Maine.
- 159 Amethyst, cut stone, $15 \frac{1}{8}$ carats. Deer Hill, Stow, Maine.
- 160 Amethyst, purple, group of crystals. Thunder Bay, Lake Superior.
- 161 Amethyst, group of two crystals, deep purple, with brilliant faces. Upper Providence, Delaware County, Pennsylvania.
- 162 Amethyst, group of three large crystals, deep purple, $5 \frac{1}{2} \times 5 \times 4$ inches, the finest one from this locality. Upper Providence Township, Delaware County, Pennsylvania.
- 163 Amethyst, small crystal, purple. Upper Providence, Delaware County, Pennsylvania.
- 164 Amethyst, cut stone, $\frac{3}{4}$ dwt. Upper Providence, Delaware County, Pennsylvania.
- 165 Amethyst, group of crystals. Delaware County, Pennsylvania.
- 166 Amethyst, cut stone, deep purple, $66 \frac{1}{2}$ carats. McDowell County, North Carolina.
- 167 Amethyst, cut stone, $5 \frac{3}{4}$ carats. Upper Providence, Delaware County, Pennsylvania.
- 168 Amethyst, light purple crystal. Haywood County, North Carolina.
- 169 Amethyst, group of crystals, deep purple. Guanaquato, Mexico.

- 170 Smoky Quartz crystal, doubly terminated, $9 \times 3\frac{1}{2}$ inches. Crystal Beds, Pike's Peak, Colorado.
- 171 Smoky Quartz, fine crystal 6 inches long. Crystal Beds, Pike's Peak, Colorado.
- 172 { Smoky Quartz, eight inches long. Pike's Peak, Colorado.
Smoky Quartz, cut stone. Pike's Peak, Colorado.
- 173 Smoky Quartz, cut stone, 8 dwts. Stoneham, Maine.
- 174 Smoky Quartz, fractured piece. Bald-Face Mountain, North Chatham, New Hampshire.
- 175 Smoky Quartz, cut stone, $3\frac{1}{2}$ dwts. Cumberland, Rhode Island.
- 176 Smoky Quartz. Stony Point, Alexander County, North Carolina.
- 177 Smoky Quartz, "cairngorm," two cut stones. Stony Point, North Carolina.
- 178 Quartz, var. Citrine, brilliant, cut stone, $1\frac{1}{3}$ inch diameter. Stony Point, North Carolina.
- 179 Smoky Quartz, two irregular seals. Alexander County, North Carolina.
- 180 Arrow-head, made of transparent Smoky Quartz (Indian), $2 \times 1\frac{1}{3}$ inches. Iredell County, North Carolina.
- 181 Spear-head, made of transparent Citrine (Indian). Iredell County, North Carolina.
- 182 Quartz, var. rock crystal, distorted crystal, transparent, $21\frac{1}{4}$ pounds. Chestnut Hill Township, Ashe County, North Carolina.
- 183 Quartz, var. rock crystal, distorted crystal. Ashe County, North Carolina.

- 184 Cutting Knife, six (Indian), made of transparent rock crystal. Wind River, Arizona.
- 185 Quartz Arrow-heads, four, of transparent rock crystal (Indian). Iredell County, North Carolina.
- 186 Quartz, Arrow-head of hyaline (Indian). Iredell County, North Carolina.
- 187 Rose Quartz, four specimens. Albany, Oxford County, Maine.
- 188 Rose Quartz, four spheres, one two inches in diameter. Albany, Oxford County, Maine.
- 189 Rose Quartz, five cut stones. Albany, Oxford County, Maine.
- 190 Rose Quartz, dish, $1\frac{2}{3} \times \frac{2}{3}$ inches, spheres.
- 191 Faceted stones, ovals, etc.
- 192 Quartz, green, fifteen small groups. Blue Hill, Delaware County, Pennsylvania.
- 193 Fire Opal, small specimen, $\frac{4}{5} \times \frac{1}{4}$ inch. John Davis River, Crook County, Oregon. First occurrence in the United States of opal showing a play of color.
- 194 Opal, milk-white. Ouray County, Colorado.
- 195 Hydrophane, "magic stone," absorbs almost its own weight of water, and becomes transparent. Colorado.
- 196 Wood Opal, three cut stones. Three Forks, Galatin County, Montana.
- 19 Wood Opal. Middle Park, Colorado.
- 198 Milky Opal, three, with moss-like markings (dendrites). South Park, Colorado.
- 199 Opal Agate, one polished specimen. Queretaro, Mexico.

- 200 Opal, var. Pealite, fifteen pieces. Yellowstone Park.
- 201 Agates, twelve, polished pebbles. Agate Bay, Lake Superior.
- 202 Agates, five specimens. Pinal County, Arizona.
- 203 Agate and Quartz, banded, polished. Yellowstone Park.
- 204 Agate and Quartz, polished specimens. Yellowstone Park.
- 205 Chalcedony, red, polished specimen. Near Salt Lake, Utah.
- 206 Rutile in Quartz (Sagenite), "Flèche d'Amour"; "Venus' Hair Stone." Specimen polished on all sides, $4\frac{3}{5} \times 2\frac{1}{2}$ inches, deep brown, and filled with stout crystals of red rutile. West Hartford, Vermont.
- 207 Rutile in Quartz, specimens polished, $4\frac{3}{5} \times 3$ inches, colorless Quartz, filled with an interlacing network of crystals of golden-colored rutile. West Hartford, Vermont.
- 208 Rutile in Quartz, polished specimen, 4×2 inches, colorless Quartz filled with crystals of red rutile. Alexander County, North Carolina.
- 209 Rutile in Quartz, 3×2 inches, filled with crystals of red rutile. Alexander County, North Carolina.
- 210 Rutile in Quartz, polished specimens. Alexander County, North Carolina.
- 211 Rutile in Quartz, "Flèche d'Amour," "Venus' Hair Stone." Four heart-shaped pieces.
- 212 Byssolite in Quartz, polished specimen, $6\frac{1}{2} \times 3$ inches. Stony Point, North Carolina.

- 213 Byssolite in Quartz, two heart-shaped pieces and six cut stones. Stony Point, North Carolina.
- 214 Hornblende Crystals, Penetrating Quartz, cut stones and polished specimens, $3 \times 1\frac{3}{8}$. Cumberland, Rhode Island.
- 215 Hornblende in Quartz, three cut stones. Cumberland, Rhode Island.
- 216 Quartz containing crystals of Byssolite, "Thetis' Hair Stone," nine cut stones. Sneach Pond, Cumberland, Rhode Island.
- 217 "Quartz Cat's eye," Quartz containing Byssolite, seventeen cut stones. Sneach Pond, Cumberland, Rhode Island.
- 218 Quartz penetrated by crystals of Stibnite. Humboldt County, Nevada.
- 219 Quartz, var. rock crystal, polished (with inclosed chlorite), $6\frac{1}{2} \times 5 \times 4\frac{1}{2}$ inches. Ashe County, North Carolina.
- 220 Quartz and Amethyst, four cut stones with chlorite and other inclusions. McDowell County, North Carolina.
- 221 Quartz, coating Cinnabar. Redington Mine, California.
- 222 Chalcedony, inclosing Cinnabar, cut stone. Redington Mine, California.
- 223 Drusy Quartz, coating sky-blue Chrysocolla. Globe District, Arizona.
- 224 Chrysocolla in Quartz and Chalcedony, cut stone. Morenci, Arizona.
- 225 Quartz, filled so thickly with Dumortierite as to resemble lapis-lazuli, three polished specimens (deep blue). Yuma County, Arizona.

- 226 Quartz, inclosing Dumortierite, cut stone, resembling lapis-lazuli. Yuma County, Arizona.
- 227 Moss Jasper. Colyer, Graham County, Kansas.
- 228 Moss Agate, series of polished specimens and eleven cut stones, charms, ovals, seals, etc. Wyoming Territory.
- 229 Moss Jasper, four polished specimens, 6 × 4 inches. Colyer, Graham County, Kansas.
- 230 Moss Jasper, polished specimens.
- 231 Jasper, four pieces, polished. Idaho.
- 232 Jasper Conglomerate, polished specimens. Bruce Mines, Algoma District, Ontario, Canada.
- 233 Novaculite, specimen, cut stones. Hot Springs, Arkansas.
- 235 Chalcedony, replacing coral (pseudomorph). Tampa Bay, Florida.
- 236 Chalcedony, replacing sponge (pseudomorph). Tampa Bay, Florida.
- 237 Moss Agates, twenty-three, cut in various shapes. Cheyenne, Wyoming.
- 238 Hyaline Chalcedony, two pebbles and four cut stones. Fort Defiance, Arizona.
- 239 Cassiterite, cut stone. Mount Apatite, Auburn, Maine.
- 240 Cassiterite, var. wood tin, one polished specimen, one cut stone. Durango, Mexico.
- 241 Rutile, brilliant crystals, long and geniculated (twelve), 1 to 2½ inches long. Stony Point, North Carolina.

- 242 Rutiles, thirteen cut stones. Milhollands, Alexander County, North Carolina.
- 243 Rutiles, thirty cut stones. McDowell County, North Carolina.
(Rutile in Quartz, see Quartz Inclusions.)
- 244 Lodestone, native magnet. Magnet Cove, Arkansas.
- 245 Menaccanite, porphyritic, polished specimen. Cumberland, Rhode Island.
- 246 Lazulite, four crystals. Graves Mountain, Lincoln County, Georgia.
- 247 Amazon-stone (microcline), crystal capped with Albite, $5\frac{1}{2} \times 5$ inches. Pike's Peak, Colorado.
- 248 Amazon-stone, crystal, deep blue-green, $2\frac{1}{2} \times 2$ inches. Pike's Peak, Colorado.
- 249 Amazon-stone (microcline), crystal. Pike's Peak, Colorado.
- 250 Amazon-stone, cleavage. Media, Delaware County, Pennsylvania.
- 251 Amazon-stone, cleavages, two pieces. Amelia Court House, Virginia.
- 252 Amazon-stone, three oval stones and one small dish. Amelia Court House, Virginia.
- 253 Moonstone (two polished specimens). Amelia Court House, Virginia.
- 254 Moonstones, three oval cut stones. Amelia Court House, Virginia.
- 255 Moonstones (oligoclase) two polished specimens. Media, Delaware County, Pennsylvania.

- 256 Oligoclase, light-green, transparent, with white, snow-like cavities. Bakersville, North Carolina.
- 257 Oligoclase, transparent, cut stone. From near Bakersville, North Carolina.
- 258 Peristerite, cut stones. Macomb, St. Lawrence County, New York.
- 259 Peristerite, polished specimen, $4 \times 2\frac{1}{3}$ inches. Bathurst, Canada.
- 260 Sunstone, cleavage specimen. Media, Delaware County, Pennsylvania.
- 261 Perthite, polished slab. Quebec, Canada.
- 262 Pegmatite (graphic granite), polished specimen. Auburn, Maine.
- 263 Pegmatite (graphic granite), polished. Connecticut.
- 264 Porphyry, green, polished specimen. Cumberland, Rhode Island.
- 265 Obsidian, four cut stones. Yellowstone Park.
- 266 Obsidian, rounded pebbles. Fort Defiance, Arizona.
- 267 Obsidian, polished specimen, 4×3 inches. Obsidian Cliff, Yellowstone Park.
- 268 Obsidian (banded brown and black). Mono County, California.
- 269 Obsidian (iridescent). Lake County, California.
- 270 Obsidian. Las Navajo, Hidalgo, Mexico.
- 271 Obsidian ("mountain mahogany"), two polished slabs, $3 \times 3\frac{3}{4}$ inches. State of Jalisco, Mexico.
- 272 Obsidian, dish, $2\frac{1}{2} \times 2 \times 1$ inches. State of Jalisco, Mexico.

- 273 Wollastonite, compact variety, polished specimen.
Bonaparte Lake, Lewis County, New York.
- 274 Wollastonite, compact variety, cut stone, $1\frac{2}{3} \times 1\frac{2}{3}$
 $\times \frac{2}{3}$ inches. Bonaparte Lake, Lewis County,
New York.
- 275 Pyroxene, var. diopside, crystal, green. St. Law-
rence County, New York.
- 276 Pyroxene, var. diopside, oily green, transparent
crystal. St. Lawrence County, New York.
- 277 Pyroxene, var. diopside, cut stone, oily green, $2\frac{1}{2}$
carats. St. Lawrence County, New York.
- 278 Jadeite Breastplate, $6\frac{1}{2} \times 5 \times \frac{2}{3}$ inches, incised
with human face or mask. Santa Lucia,
Cotzulmaguapa, Guatemala.
- 279 Jade Snow-cutter, 6 lbs. 1 oz. Troy, $11 \times 6 \times 1$
inches. Yukon River, Alaska.
- 280 Pyroxene, var. smaragdite, cut stone. Cullakenee
Mine, Clay County, North Carolina.
- 281 Rhodonite, crystal. Trotter Mine, Franklin, New
Jersey.
- 282 Rhodonite, polished specimen. Cummington,
Massachusetts.
- 283 Rhodonite Vase. Cummington, Massachusetts.
- 284 Rhodonite, three cut stones. Cummington, Mas-
sachusetts.
- 285 Willemite, canary yellow, two transparent cut
stones, $9\frac{7}{8}$ carats (only seven cut stones
known). Franklin, New Jersey.
- 286 Gadolinite, one polished specimen and two cut
stones. Near Burnett, Llano County,
Texas.

- 287 Epidote crystals. Rabun Gap, Georgia.
- 288 Danburite, crystal, opaque. St. Lawrence County, New York.
- 289 Danburite, group transparent crystals. St. Lawrence County, New York.
- 290 Scapolite, var. Wernerite, pink cut stone, one polished specimen. Bolton, Massachusetts.
- 291 Sodalite, two cut stones. Litchfield, Maine.
- 292 Sodalite, polished vein, deep blue, $3\frac{1}{2} \times 3\frac{1}{2}$ inches, in elolite. Litchfield, Maine.
- 293 Sodalite and Cancrinite on elolite. Litchfield, Maine.
- 294 Lepidolite, pink, polished specimen. Paris, Oxford County, Maine.
- 295 Datolite, pink, polished piece. Isle Royale, L. S.
- 296 Datolite, pink, polished piece, broken nodule. Phenix, Michigan.
- 297 Chondrodite, bright crystal. Tilly Foster Mine, Brewsters', New York.
- 298 Chondrodite, cut stone, $7\frac{1}{16}$ carats. Tilly Foster Mine, Brewsters', New York.
- 299 Titanite, yellow-green, twin crystal, $1\frac{3}{8} \times 1$ inch. Bridgewater Station, Delaware County, Pennsylvania.
- 300 Cyanite, transparent and translucent azure-blue crystals. Seven Mile Ridge, Mica Mine, Mitchell County, North Carolina.
- 301 Cyanite. Seven Mile Ridge, Mitchell County, North Carolina.
- 302 Cyanites, four cut stones, blue. Bakersville, North Carolina.

- 303 Staurolite (seven crystals). Fannin County, Georgia.
- 304 Chiasolite, var. macle, seven polished sections of crystals, showing markings. Lancaster, Massachusetts.
- 305 Prehnite, cut stone. Bergen Hill, New Jersey.
- 306 Chlorastrolite in amygdaloid. Isle Royale, L. S.
- 307 Chlorastrolite, natural polish, $24\frac{27}{32}$ carats, one of the largest and finest ever found, $1\frac{1}{2} \times 1 \times \frac{1}{3}$ inches. Isle Royale, L. S.
- 308 Chlorastrolite, two cut stones, $\frac{4}{5} \times \frac{1}{2} \times \frac{1}{4}$ inch. Isle Royale, L. S.
- 309 Chlorastrolite, lot pebbles and cut stones. Isle Royale, L. S.
- 310 Lintonite, three pebbles. Grand Marais, Minnesota.
- 311 Zonochlorite, three pebbles. Nepigon Bay, Lake Superior.
- 312 Thomsonite, lot of pebbles and cut stones, from $\frac{1}{8}$ inch to $1\frac{1}{2}$ in diameter. Grand Marais, Minnesota.
- 313 Pectolite, white, cut stone. Tehema County, California.
- 314 Schorlomite, black, two cut stones. Magnet Cove, Arkansas.
- 315 Isopyre, polished section, near Dover, New Jersey.
- 316 Isopyre, cut stone, near Dover, New Jersey.
- 317 Calamine, blue, cut stone. Franklin, New Jersey.
- 318 Serpentine, var. Williamsite, polished section, 7×5 . Texas, Lancaster County, Pennsylvania.

- 319 Williamsite, two polished slabs 4×4 . Texas, Lancaster County, Pennsylvania.
- 320 Serpentine, var. Bowenite, white and lemon-yellow, cut stones. Smithfield, Rhode Island.
- 321 Catlinite (Sioux Indian Pipe). Pipestone County, Minnesota.
- 322 Fossil Coral (Devonian), polished specimens. Iowa City, Iowa.
- 323 Fluorite, green, group crystals, $8 \times 6 \times 5$. Macomb, St. Lawrence County, New York.
- 324 Microlite (red-brown), cut stone, $1\frac{3}{16}$ carats. Amelia Court House, Virginia.
- 325 Samarskite, two cut stones. Mitchell County, North Carolina.
- 326 Beryllonites, ten crystals, two cut stones. Stoneham, Maine.
- 327 Turquoise, deep blue polished vein on rock, specimen $3 \times 2\frac{1}{2}$. Los Cerillos, New Mexico.
- 328 Turquoise, four polished specimens of blue and green in veins. Los Cerillos, New Mexico.
- 329 Turquoise, three cut stones. Los Cerillos, New Mexico.
- 330 Turquoise, ten charms, made by the Pueblo Indians. Los Cerillos, New Mexico.
- 331 Turquoise, four strings of beads and two earrings, made by the Pueblo Indians. Los Cerillos, New Mexico.
- 332 Turquoises, three charms, cut by the Pueblo Indians. Los Cerillos, New Mexico.
(Turquoise with gold, see gold.)
- 333 Turquoise in silver ring, made by Navajo Indians.

- 334 Turquoise, prairie-dog, fetich used by the Pueblo Indians to induce rain, made of marble, with eyes and spots of inlaid turquoise, charm made of abalone shell.
- 335 Turquoise, fine blue grains in matrix. Humboldt, Nevada.
- 336 Jet, three polished pieces. El Paso County, Colorado.
- 337 Arrow-points, thirty-three, made of obsidian, agate, chalcedony, agatized wood, etc. Willamette River, Oregon.
- 338 Porphyry. Cumberland, Rhode Island.
- 339 Pyrites, three cut stones. Black Hawk Mine, Colorado.
- 340 Iron pyrite, two groups brilliant crystals. Gilpin County, Colorado.
- 341 Trilobites (*Calymene senaria*). Covington, Kentucky.
- 342 Malachite, reniform mass, $7 \times 4 \times 3$ inches. Copper Queen Mine, Arizona.
- 343 Malachite, banded, $4\frac{1}{2} \times 4 \times 3$. Morenci, Arizona.
- 344 Malachite. Copper Queen Mine, Arizona.
- 345 Malachite, three cut pieces. Copper Queen Mine, Arizona.
- 346 Malachite, oval cut stone. Jones Mine, Berks County, Pennsylvania.
- 347 Azurite, deep blue. Morenci, Arizona. Azurite and Malachite, polished specimens with alternate circular bandings of azurite (blue), and malachite (green), one within the other. 1×1 to $4\frac{1}{4} \times 3$ inches.

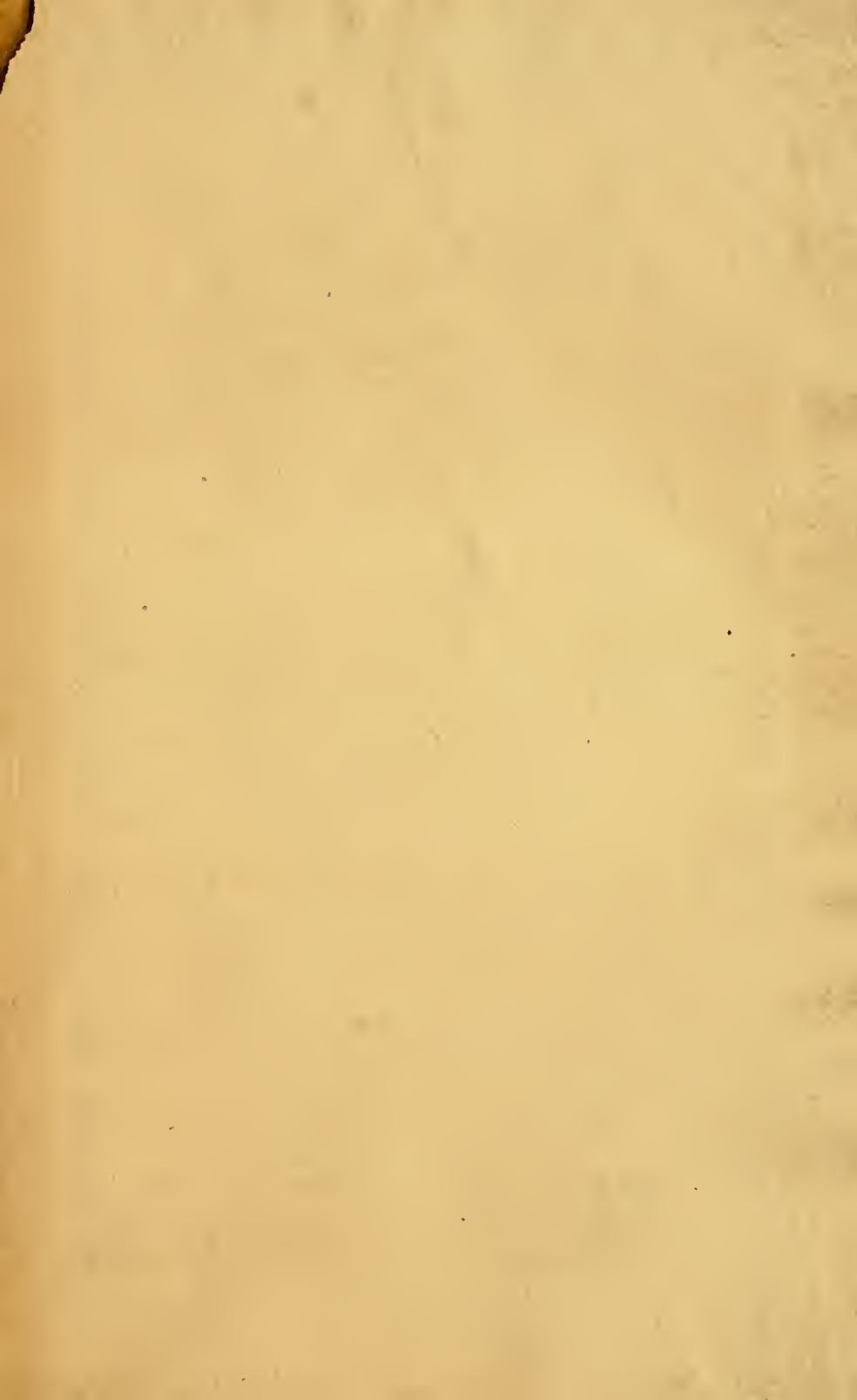
- 348 Amber, yellow, translucent, from Cretaceous marl, size, $2\frac{1}{2} \times 2\frac{1}{2}$, part of a mass that was $20 \times 6 \times 1$ inch. Harrisonville, Gloucester County, New Jersey.
- 349 Amber, opaque brown, $1 \times 1 \times 1$. Mantua Creek, Gloucester County, New Jersey.
- 350 Amber, transparent brown, $1\frac{2}{3} \times 1 \times \frac{1}{3}$ inch. Cape Sable, Magothy River, Maryland.
- 351 Amber, rounded grain. Laramie beds of the upper Cretaceous. Judith River, Montana.
- 352 Amber, deep yellow, transparent, with green fluorescence like petroleum, $4\frac{1}{2} \times 2 \times 1\frac{3}{4}$ inches. Southern Mexico. Quantities said to exist in the interior, and to be used by the Indians for making fires.

PEARL-BEARING FRESH WATER MUSSELS.

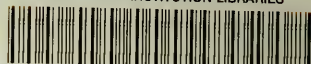
- 353 *Anodonta ovata* (Lea). Ohio to Michigan, Kansas and Louisiana.
- 354 *Margaritana rugosa*, two (Barnes). Massachusetts to Ohio, Nebraska and Kansas.
- 355 *Margaritana complanata*, two (Barnes). Nebraska, Kansas, Western New York.
- 356 *Unio alatus*, one (Say). New York to Minnesota, Kansas to Louisiana.
- 357 *Unio undulatus* (Barnes). Massachusetts, Western New York, Ohio River, Michigan, Kansas, Texas.
- 358 *Unio tuberculatus*, two (Barnes). Texas, Kansas, Ohio to Northern Georgia,

- 359 *Unio luteolus*, two (Lamarck). Western New York, Ohio, Kansas, Canada.
- 360 *Unio coccineus* (Lea). Iowa, New York, Ohio, Kentucky.
- 361 *Unio subovatus*, one (Lea). Illinois, Ohio, East Tennessee.
- 362 *Unio satur* (Lea). New Mexico, Louisiana.
- 363 *Unio lacrymosus*, two (Lea). Ohio to Kansas.
- 364 *Unio trigonus*, two (Lea). Western New York to Iowa.
- 365 *Unio ligamentinus*, one (Lamarck). Nebraska and Kansas to Southern Louisiana.
- 366 Pearls from American *Unios*, series representing variety of form and range of color.
- 367 Pearls, six. Notch Brook, Paterson, New Jersey. Found in 1857 during the pearl excitement.
- 368 Pearls from *Unios*. From Weymouth, Nova Scotia.
- 369 Pearls, *Unios*. Found on the altar of one of the "Turner Group" of Indian mounds in the Little Miami Valley, Ohio.
- 370 Pearls, seven from *Haliotis* or Abalone shells. From the Gulf of California.
- 371 Abalone Shells, two (*Haliotis splendens*).
- 372 Abalone Shells, three (*Haliotis cracherodon*).
- 373 Pearls, Abalone shell (*Haliotis splendens*), two. San Diego, California.
- 374 Pearls, two from *Haliotis splendens*. Gulf of California.

- 375 Shells (two) and pearls (ten) from the common Clam (*Venus mercenaria*), white, brown, purple and black. Long Island Sound, New York.
- 376 Pearls and Shell of *Venus fluctifraga*. San Diego Bay, California.
- 377 Pearls from the common oyster, *Ostrea borealis*, eight, one the size, shape, with the marking of a human eye, *all of no value*. Long Island Sound.
- 378 Pearl and Shell, *Pachyderma crassatelloides*. San Diego, California.
- 379 Common Conch (*Strombus gigas*). Key West, Florida.
- 380 Pearls from Common Conch.
- 381 Pearl Oyster, *Avicula (Meleagrina) margaritifera* (two shells), with pearl adhering. Lower California.
- 382 Same with nacreous protuberance.



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