## EYEWITNESS © GUIDES

# ARMS&T ARMOUR







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Chinese sword in wooden sheath, clad in tortoiseshell with brass mounts

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Spiked iron bracelet from eastern

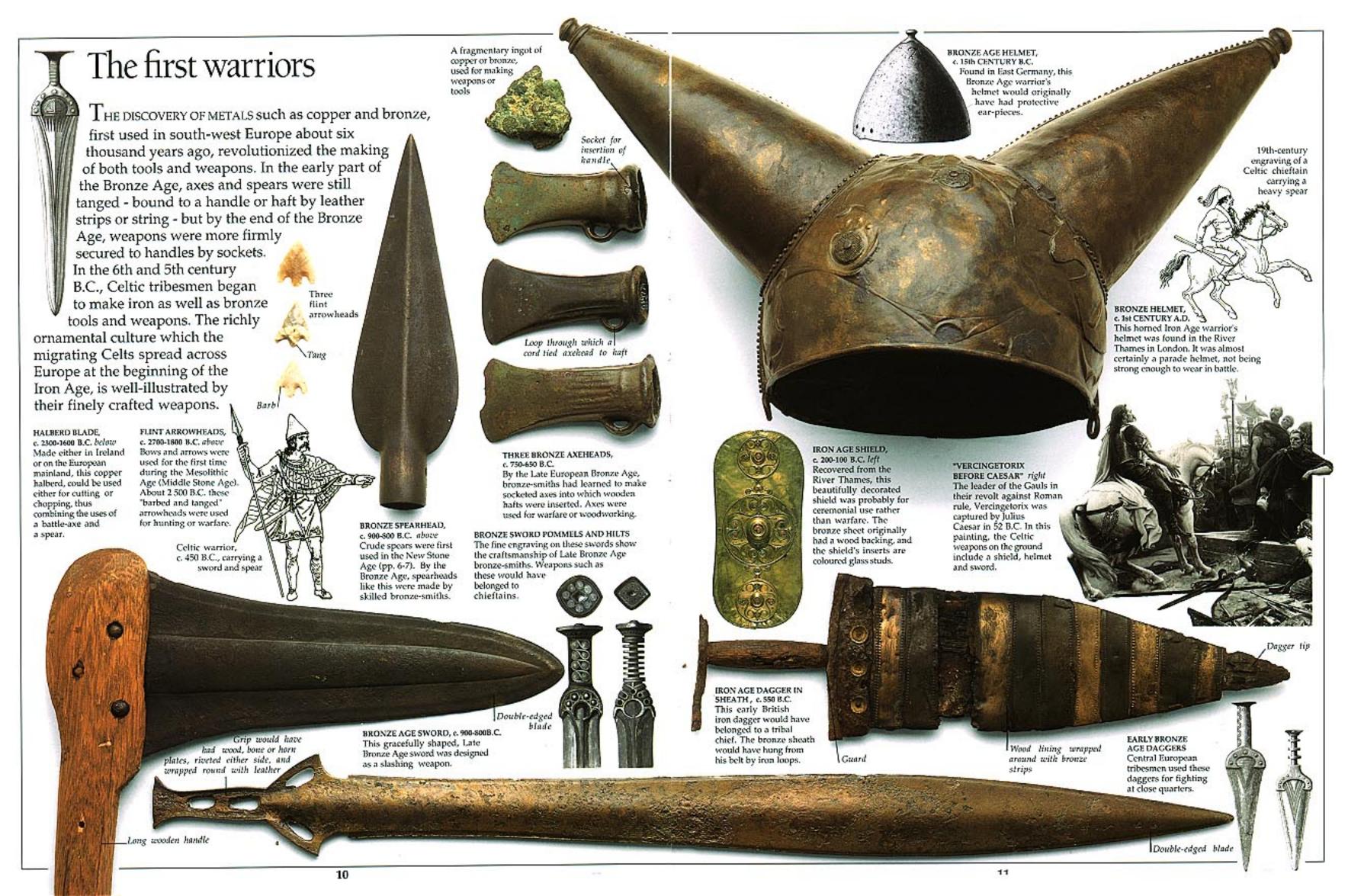


Flintlock firearms Duelling swords Duelling pistols Attack by highwaymen Bizarre handweapons 52 Grenadiers and cavalry Keeping law and order 56 The percussion revolver 58 Pistols Guns that won the West North American Indians

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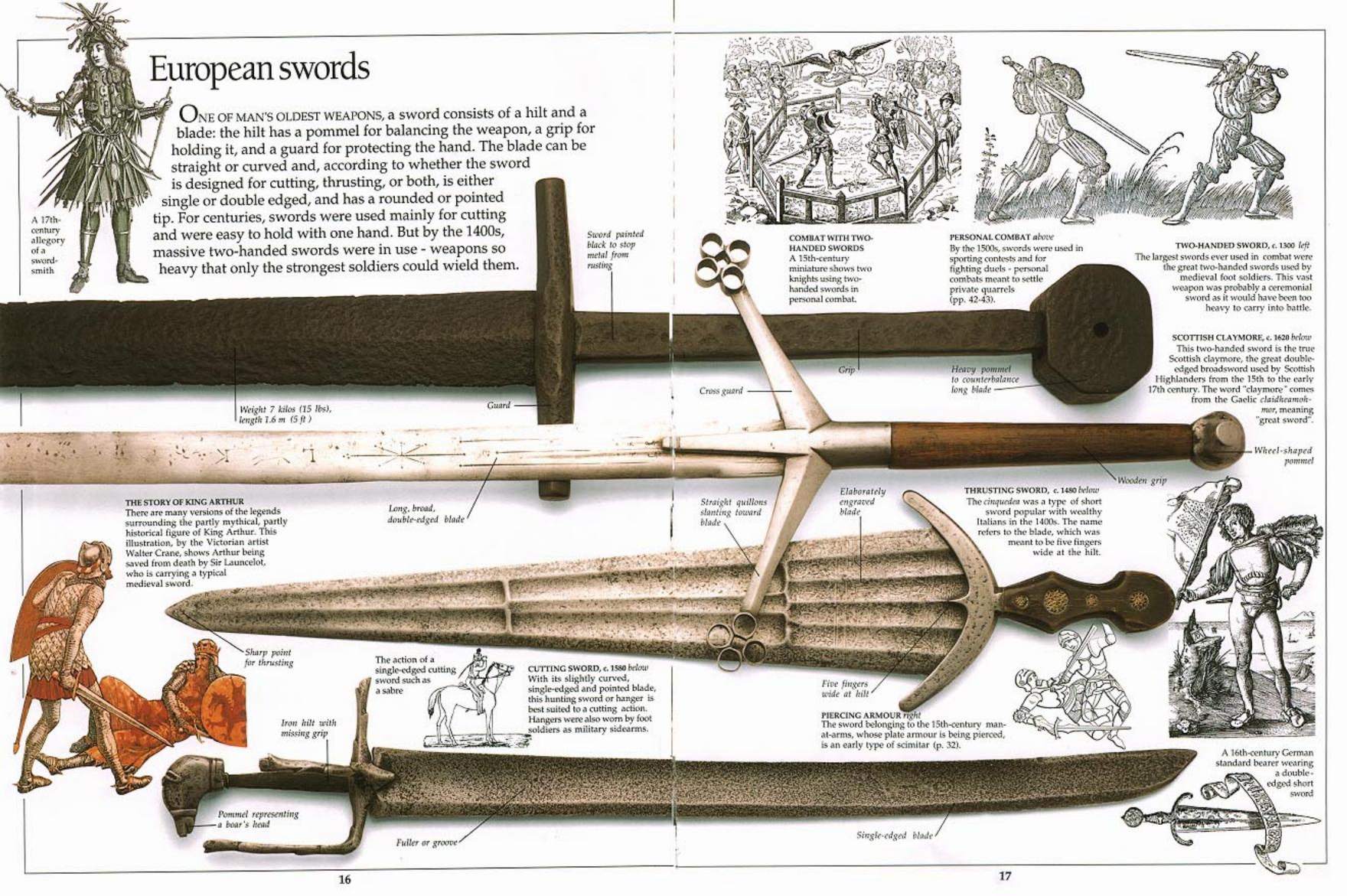


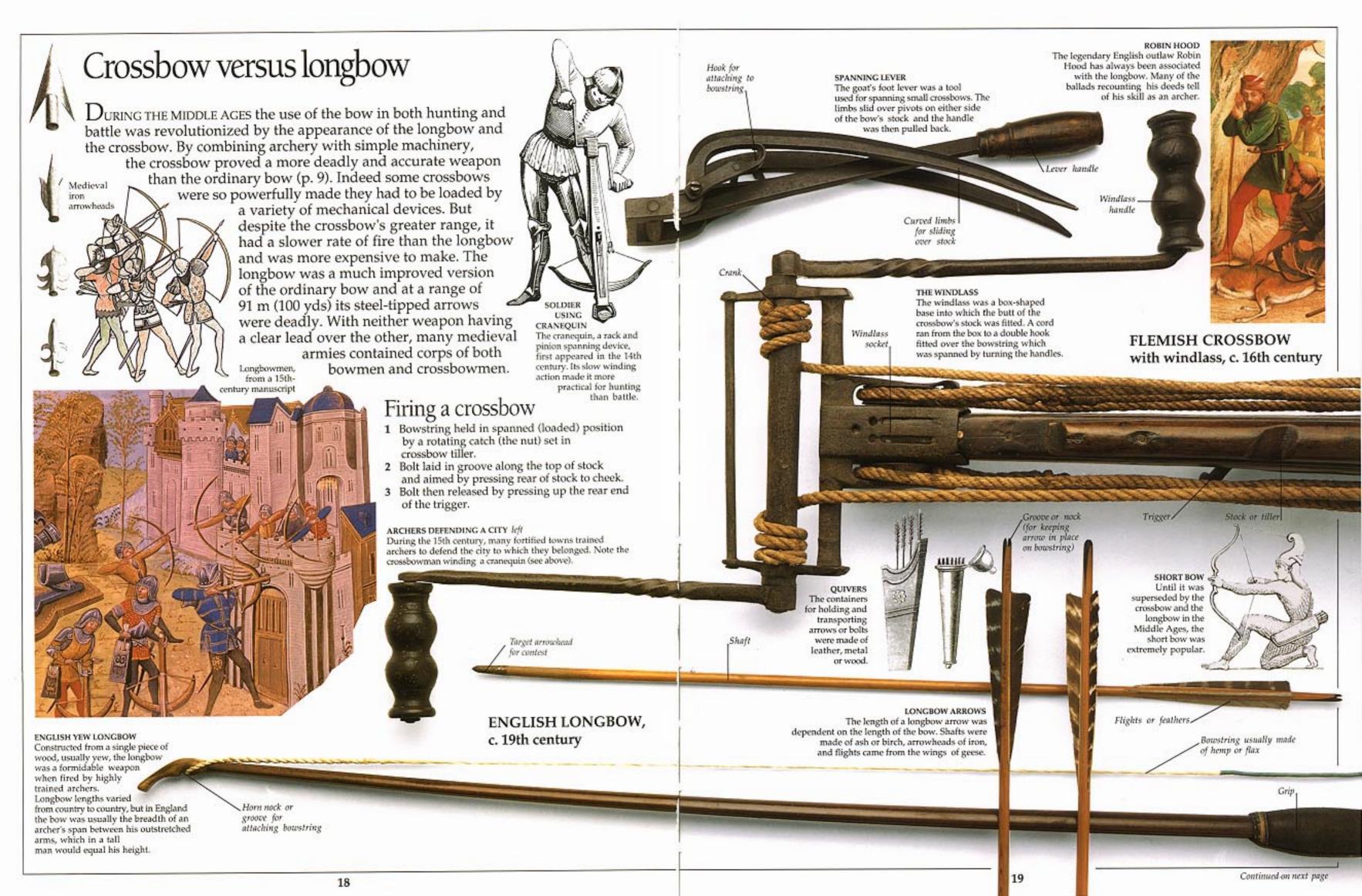


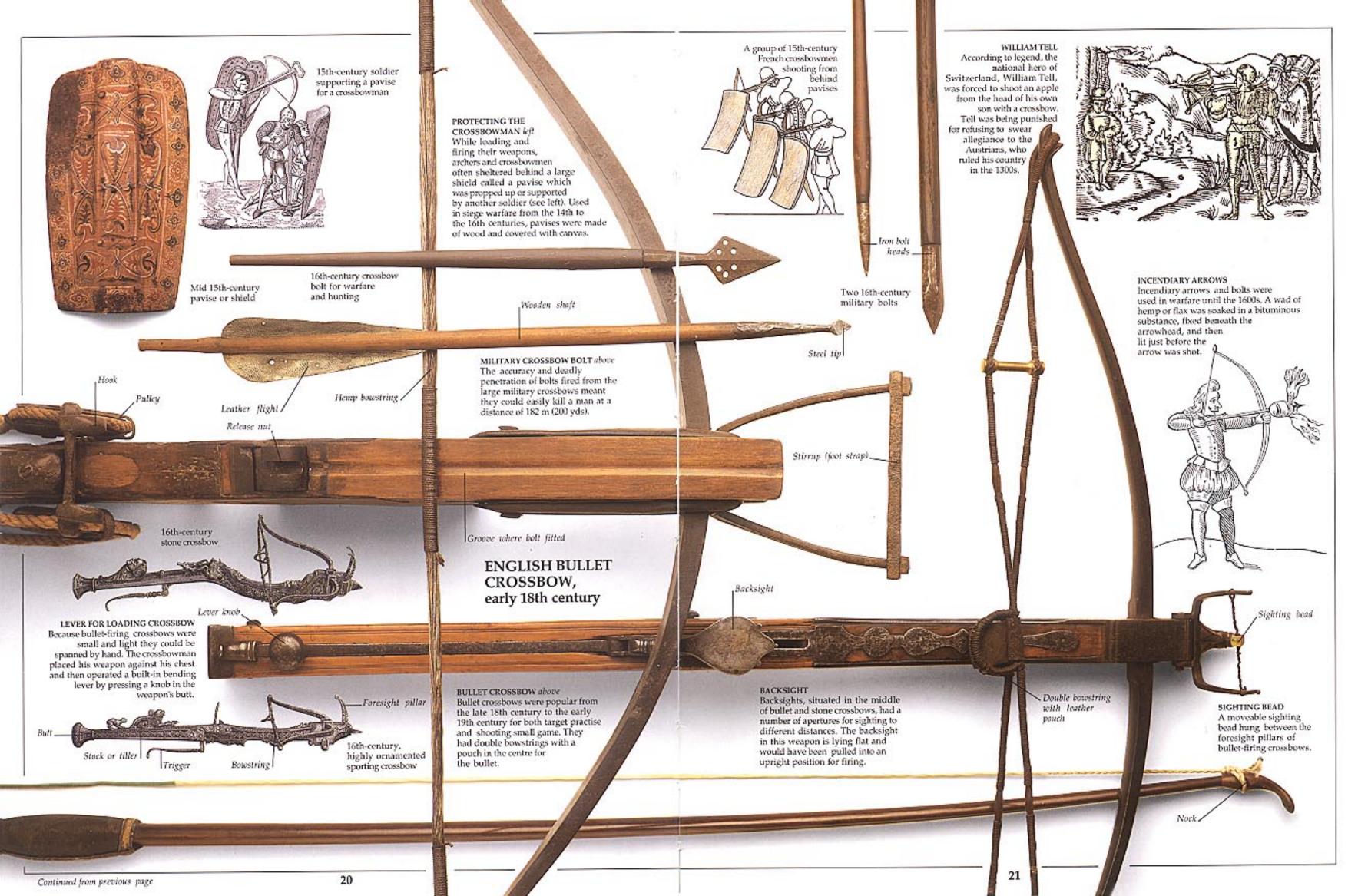






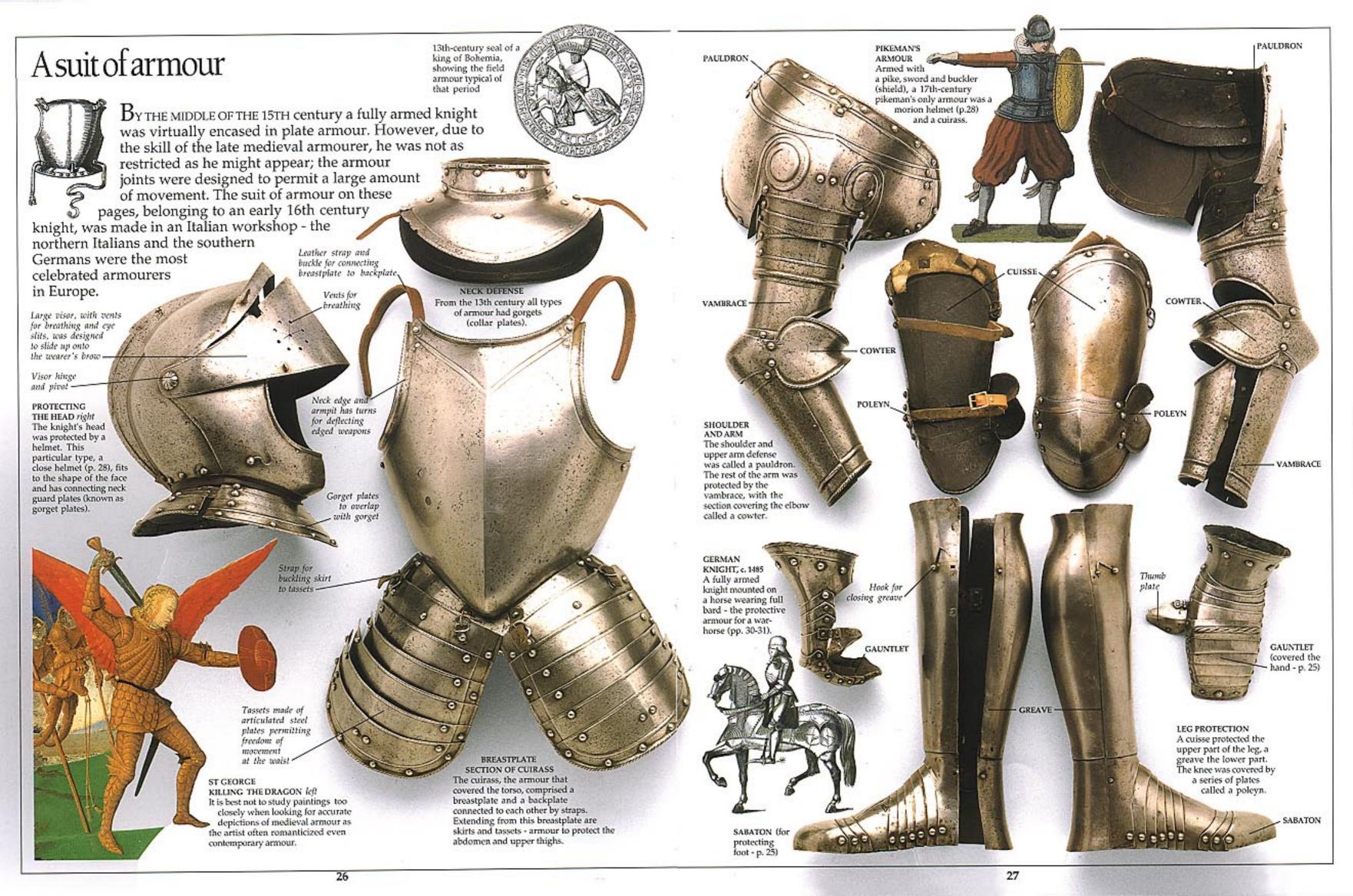


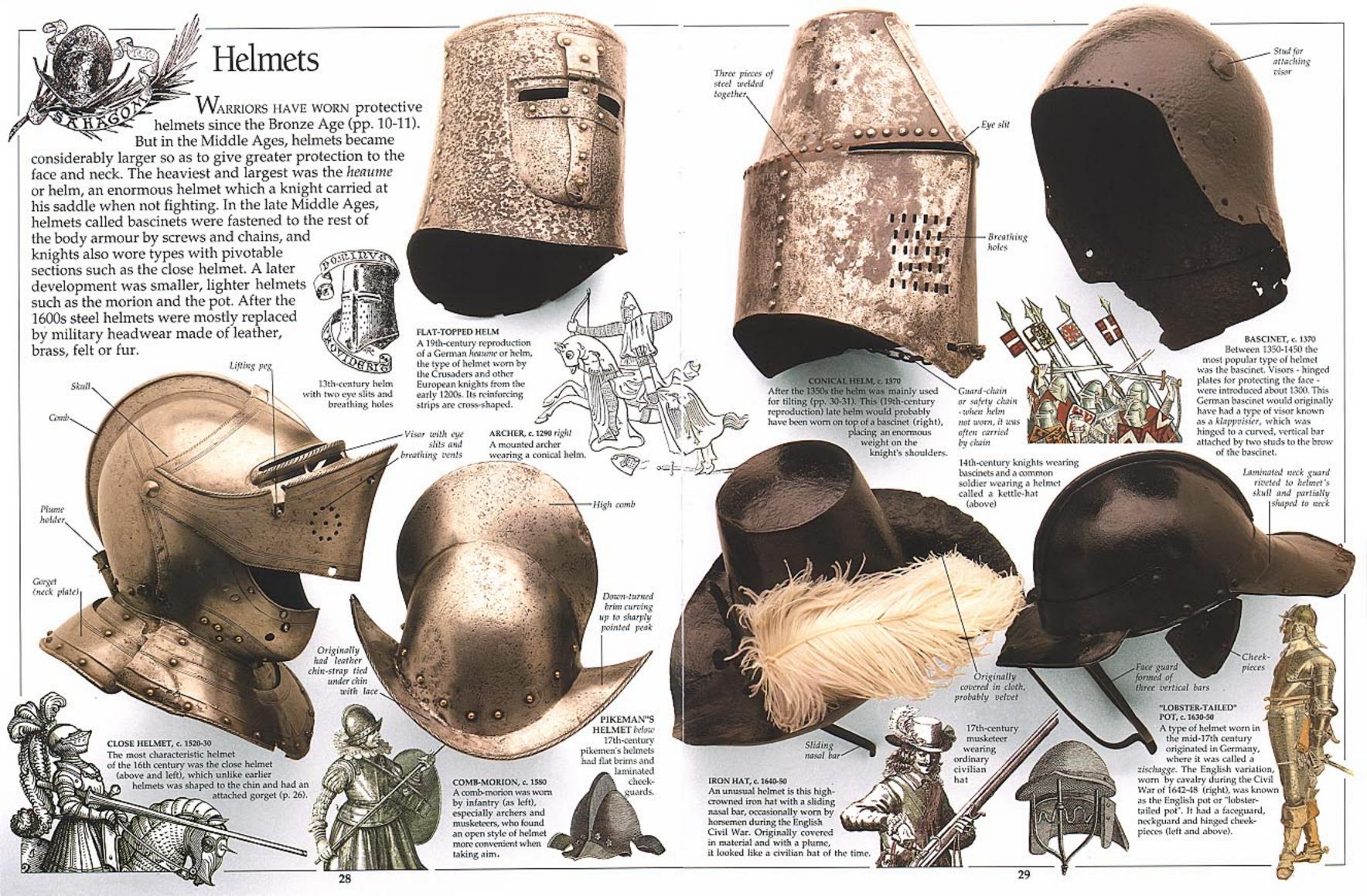


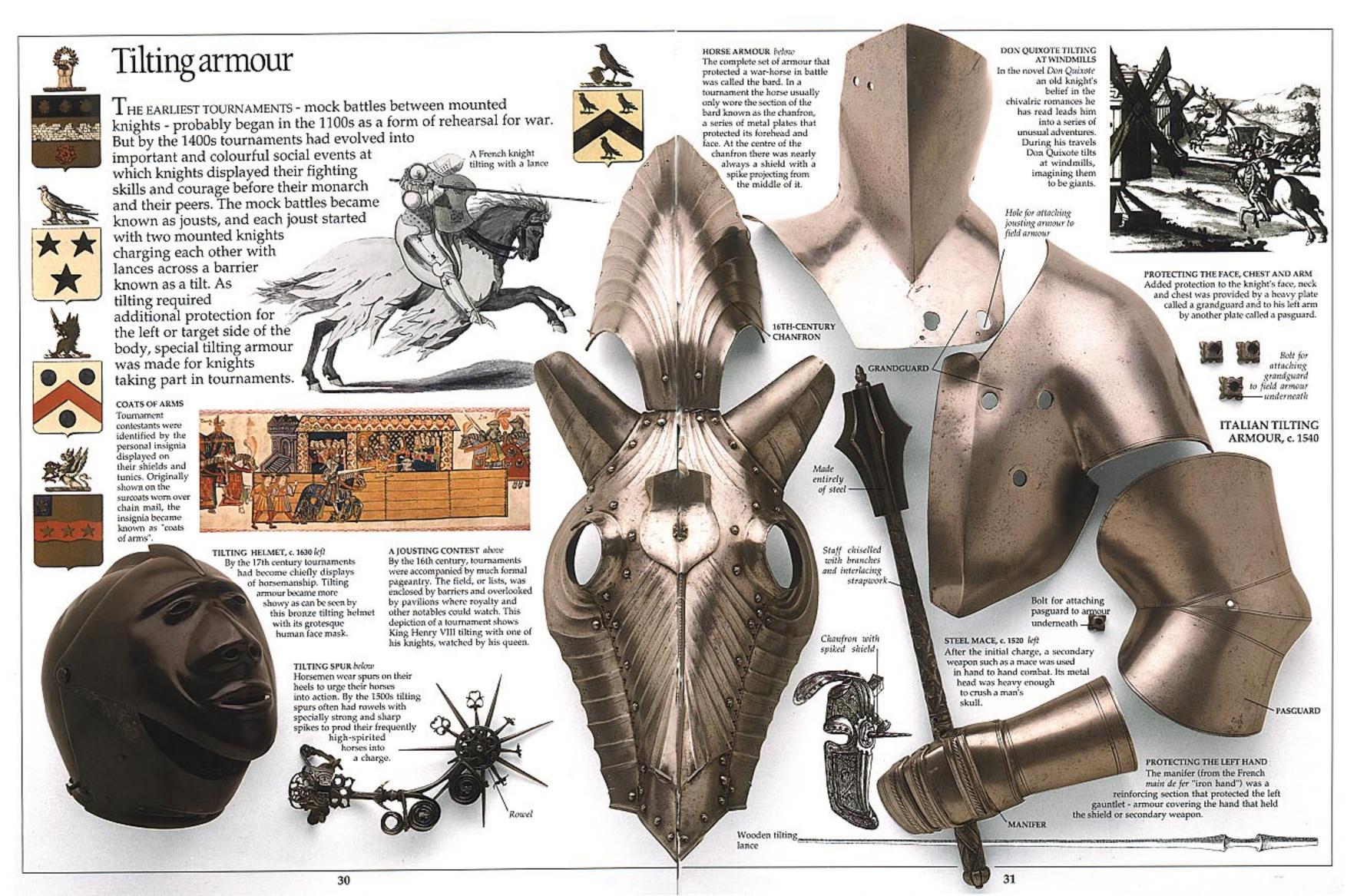








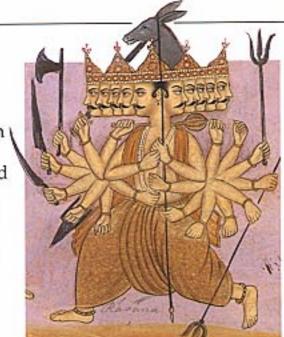






Indian weapons

Despite the foreign influence on Indian arms and armour (pp. 32-33), some Indian states and peoples developed specialist weapons of their own which they continued to use up until the beginning of the 20th century, alongside Indo-Persian swords and European-style muskets. These characteristic and often beautifully decorated weapons include the katar, the Hindu thrusting dagger, and the chakram, the steel war quoit worn by Sikh warriors on their turbans.



Jade handle inlaid with rubics and diamonds

ALL-STEEL BATTLE-AXE above

This type of tabar (p. 32) has an

elongated blade with a slightly

rounded cutting edge. Its hollow

handle conceals a dagger.

soldier using

a matchlock

musket, c. 1846

ARMOUR-PIERCING DAGGER above

The pesh-kabz was a specialist dagger from Persia and north India, used mainly for piercing chain mail. The blade was wide at the hilt, narrowing to a cutting edge before tapering to a sharp point. MULTI-ARMED
DEMON above top
A painting of a well-armed
Hindu demon. His weapons
include an axe, thrusting
dagger, tridents, swords,
mace, and a spear.

Hollow handle for dagger

Dagger that screws

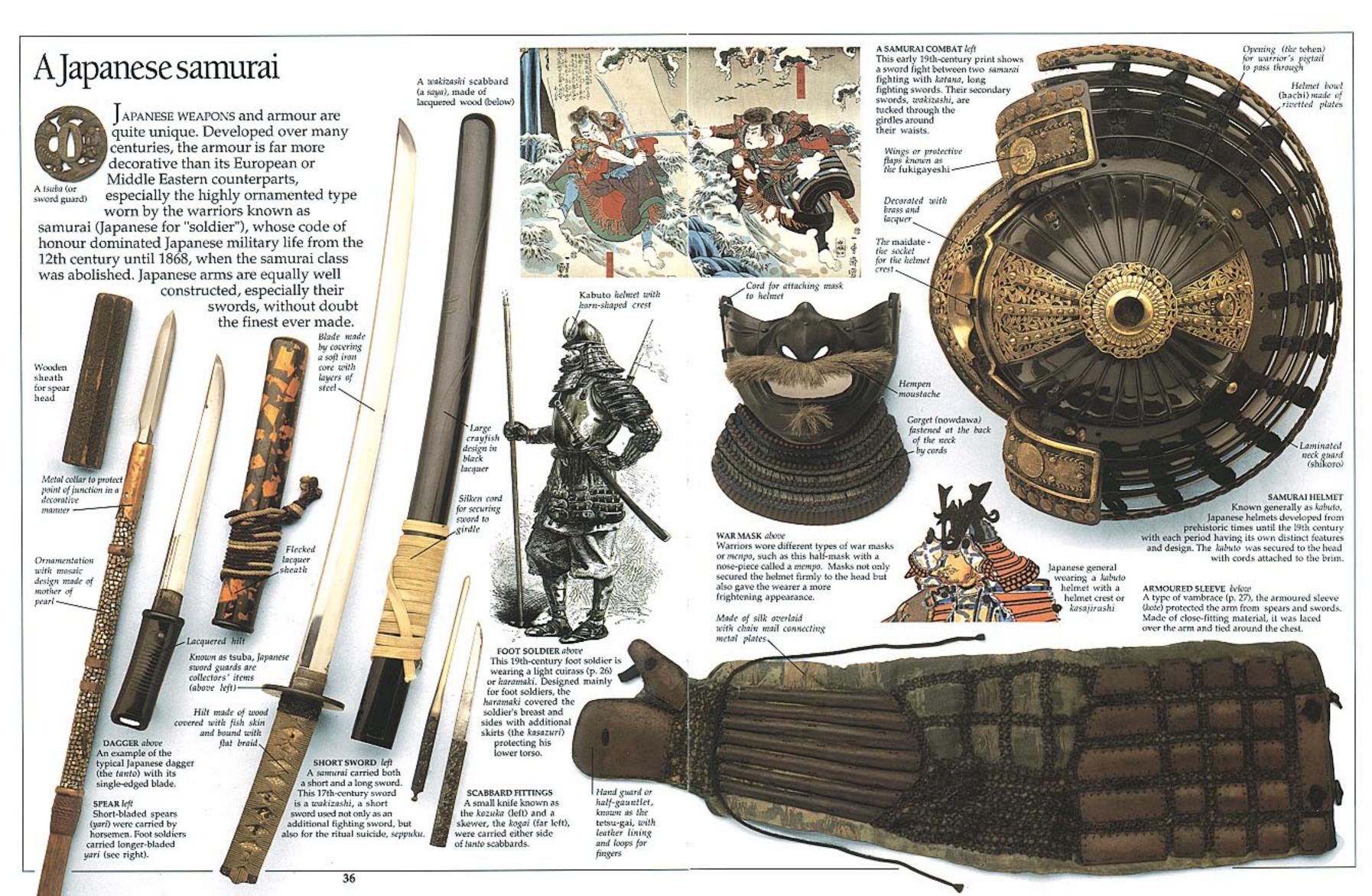
into hollow axe hilt

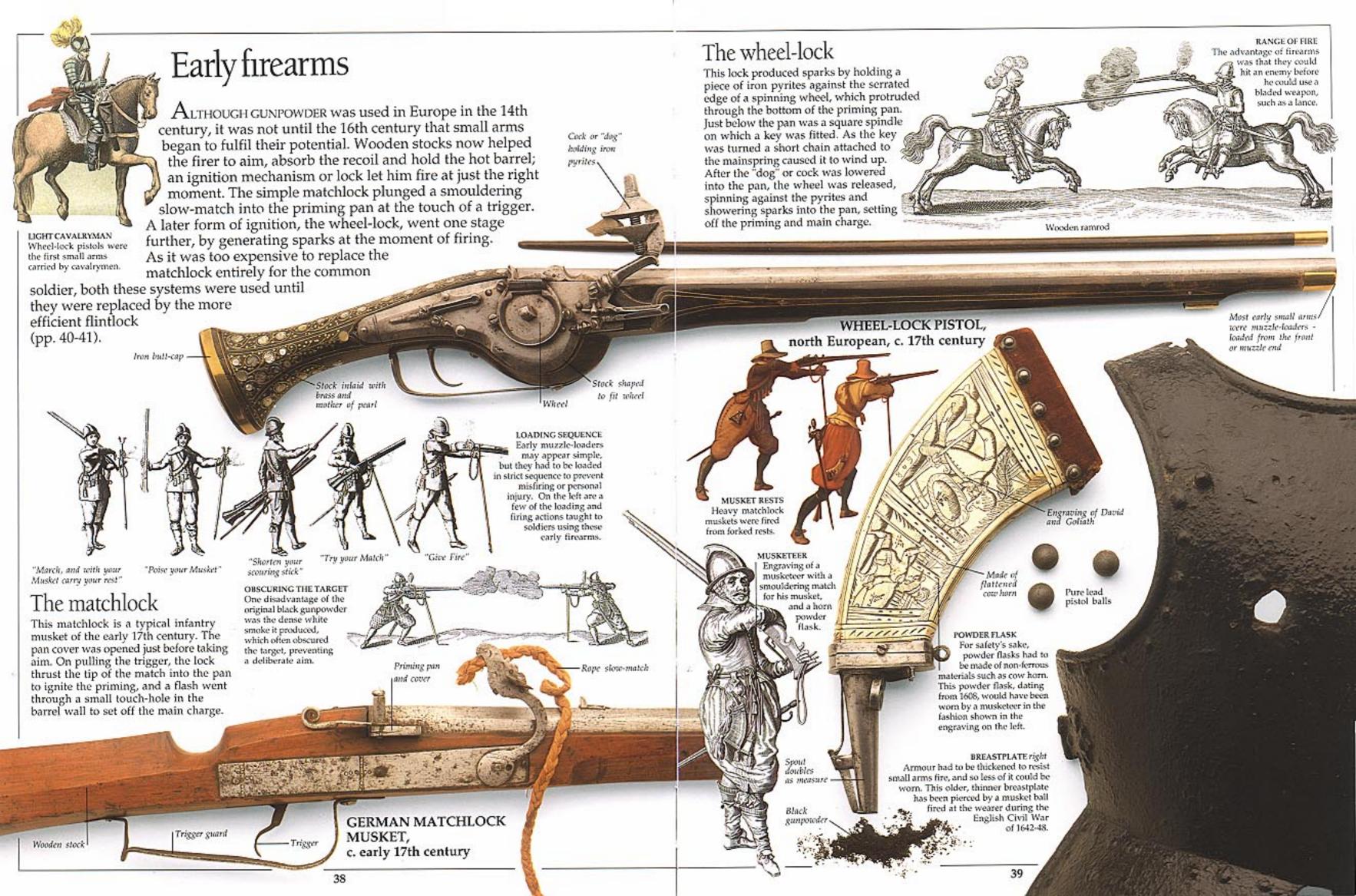
Gold damascened

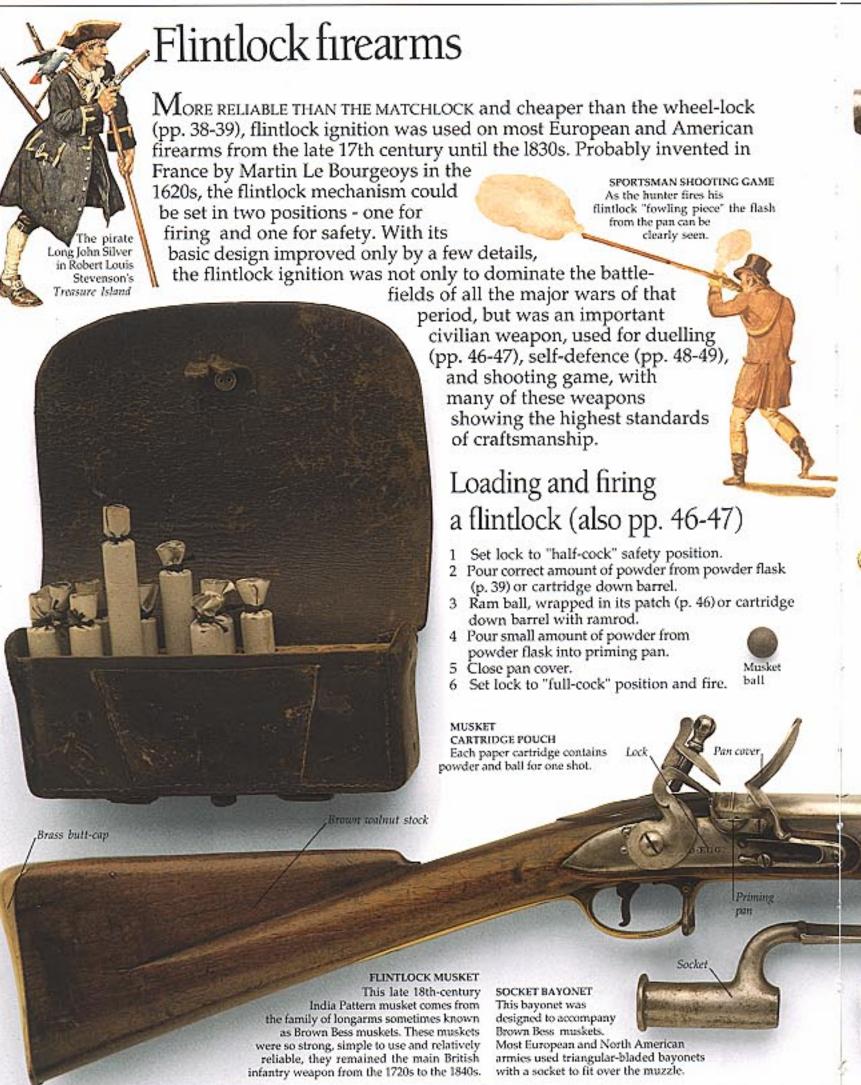
SINGLE-EDGED SWORD below
The tulicar was a curved sword
widely popular in India. This one has the
short grip and dish-like pommel characteristic
of the Punjab region.

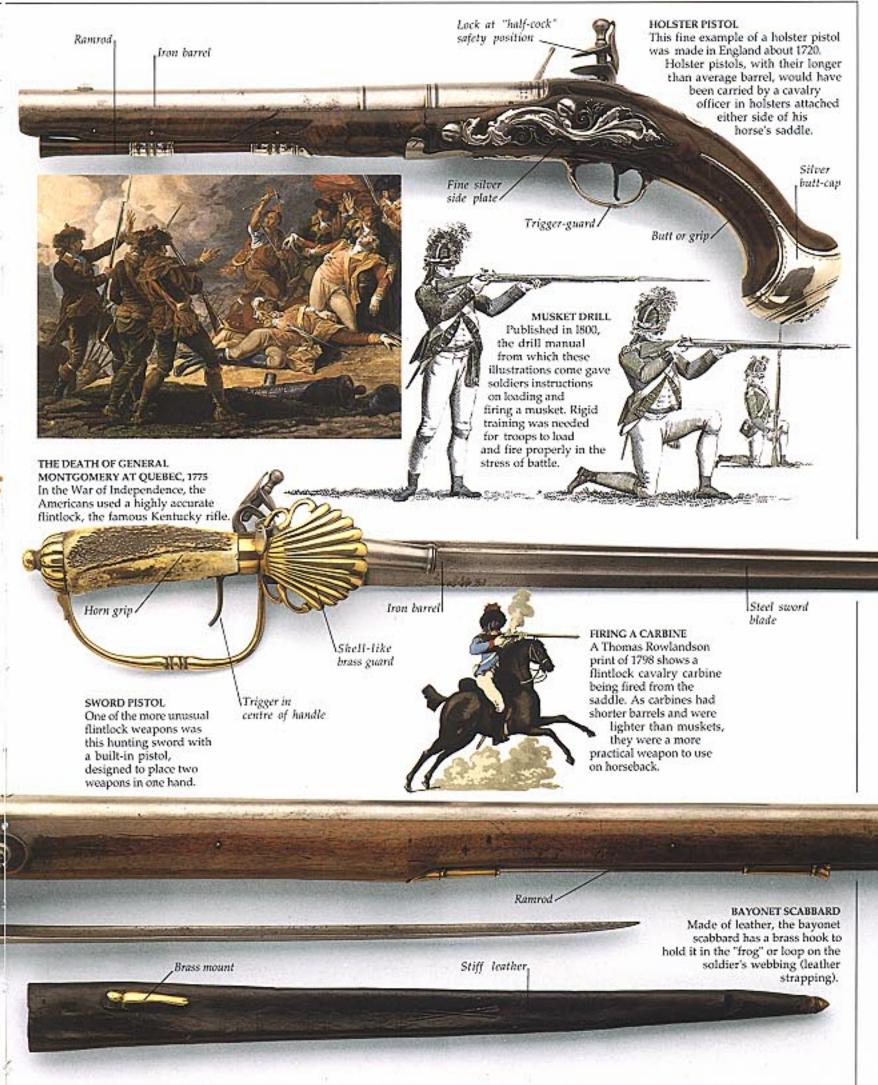
INDIAN WARRIORS IN BATTLE left In this Mogul (p. 32) battle scene every combatant carries a katar or thrusting dagger. There is also the type of Indian sword, the tuluur, and some soldiers are carrying the shield known as a dhal. Other weapons being used are a bow and arrows, a spear and a musket.

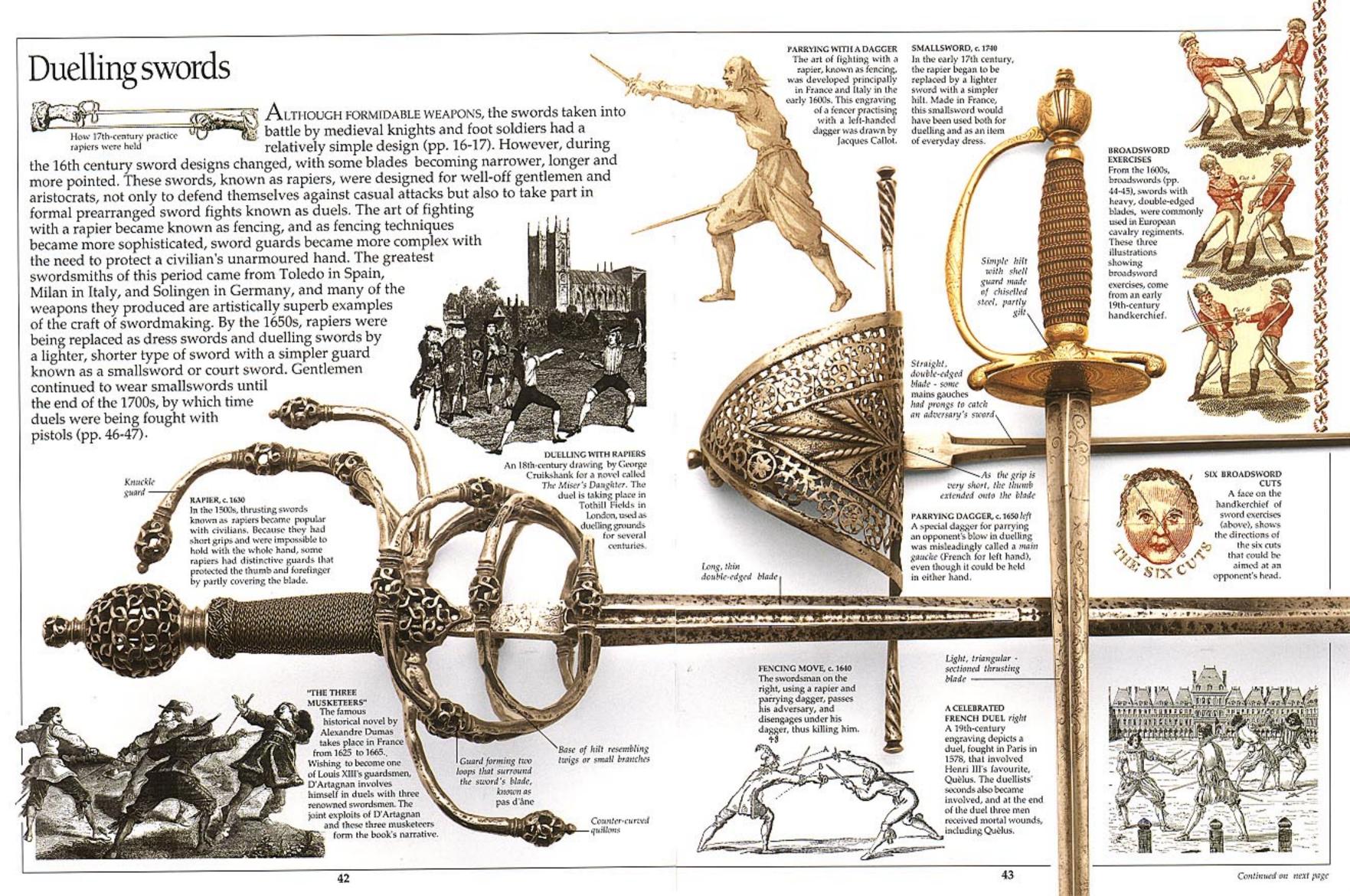


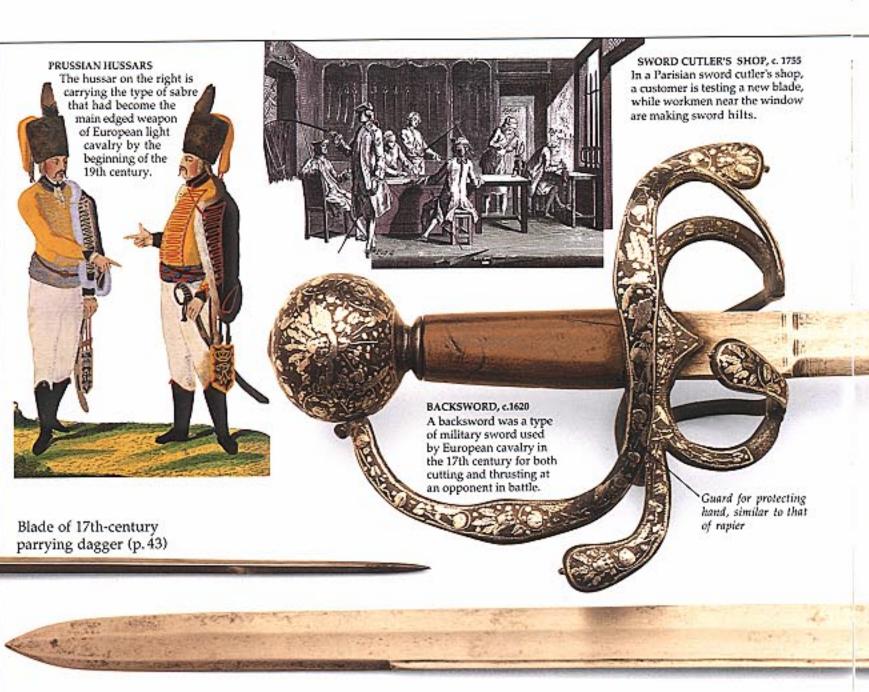


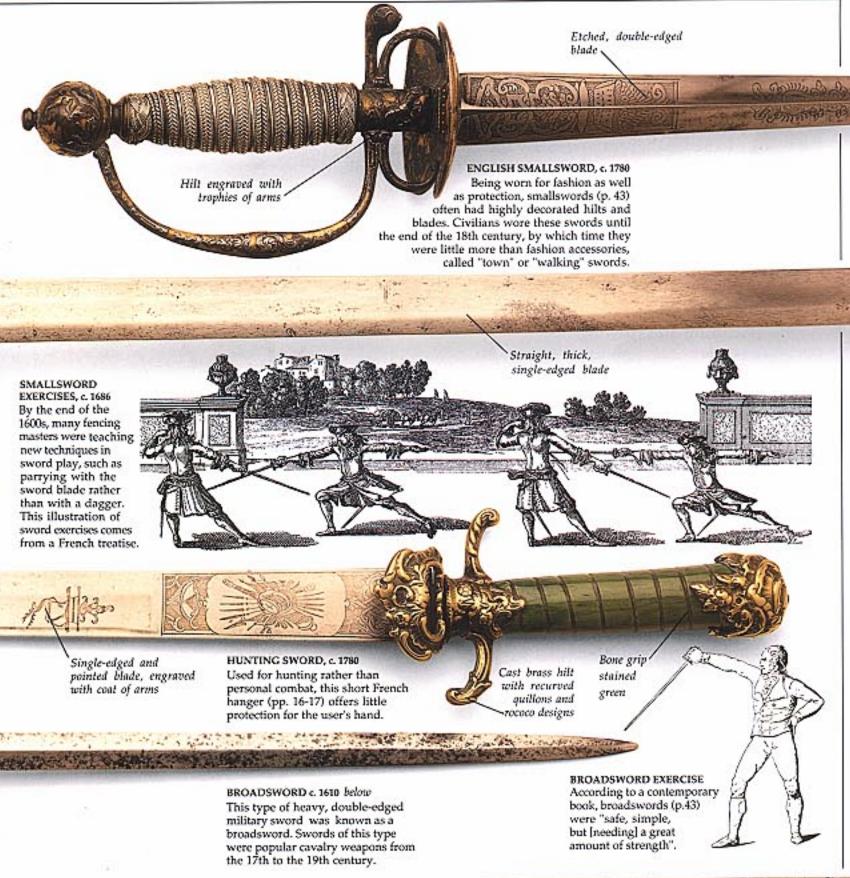












In England THE BATTLE OF DENAIN left In this painting of a battle fought in broadswords with this decoration were 1712, between the French and an Anglo-Dutch army, the French victor, called "mortuary" swords as the heads were said to Marechal de Villars uses his refer to the executed smallsword to rally his men. King Charles I Basket hilt completely Running wolf protected the hand engraving, originally used by well-known German blade-makers

The first of the self-control of the self-cont

16TH-CENTURY HILTS
Far simpler than the rapier hilts designed to protect the hand in duelling, is the hilt of the broadsword used by a Landsknecht, a German foot soldier, in the 1500s.



A Landsknecht's broadsword and hilt

Blade of 17th-century

rapier (pp. 42-43)

Duelling pistols

ALTHOUGH ILLEGAL, for centuries duelling had been a popular way for "gentlemen" and army officers to settle their quarrels. By the late 18th century, when flintlock pistols were perfected, they had replaced swords (pp. 42-43) as the preferred method of fighting a duel. Gunsmiths began to make special duelling pistols in matched pairs, which they supplied fitted into a case with all the necessary accessories for both making the bullets, and

cleaning and loading the pistols. In order that duelling pistols should be as accurate as possible the pistols were of the highest quality, with added refinements such as sights and special triggers. All duelling pistols were muzzleloaders (pp. 38-39), and until about 1820-30 all used flintlock ignition.

THE END OF THE DUELLING ERA A French duellist, c. 1887. His opponent is shown far left.

WOODEN STOCK right

that the butt would fit comfortably in the duellist's

hand. Some pistols had a

squarer saw-handled butt

ALEKSANDR PUSHKIN

Eminent men who took

part in duels included

the British general and

statesman, the Duke of

with his wife's lover

in 1837.

Wellington, and the French

politician Georges Clemenceau. A

writer Pushkin, killed in a duel

famous victim was the great Russian

to assist the grip.

In all duelling pistols the wooden

stock was carefully made so

The grip - part of stock

where pistol is held



A PAIR OF ENGLISH DUELLING PISTOLS, c. 1800 (lock of lower pistol shown separately)

Duelling pistols were muzzleloaders (pp. 38-39). The outside of the barrel was usually octagonal in shape, and fitted with sights.

AN AFFAIR OF HONOUR, c. 1820 Duels were called "affairs of honour". A gentleman who considered himself insulted by the behaviour of another would challenge him to a duel. To refuse to be "called out" cast a bad slur on a gentleman's honour. Robert Cruikshank painted this fatal duel at the height of the duelling era.



Screwed to the side of the stock, the lock was the mechanism

that fired the pistol. When the trigger of a flintlock was pulled,

the cock swung forward making sparks by scraping the flint down

the steel (or frizzen) and pushing open the pan cover. The sparks

fell into the priming powder, which burned with a flash and set off the main powder charge in the barrel, through the small

In pistol duels combatants had to follow a strict set

of rules. The exact rules of the fight were agreed

between the two men and their "seconds" - friends

At a given signal, such as the dropping of a hand-

Usually, the two duellists stood an agreed number of

paces apart, with their pistols pointing at the ground.

who loaded the pistols and witnessed the duel.

THE RULES OF DUELLING

kerchief by one of the seconds, the

duellists raised

their pistols

AMERICAN ANTI-DUELLING

duelling was as popular in

When this anti-duelling cartoon

was published in Philadelphia,

CARTOON, c. 1821 left

America as it was in

and England.

countries such as France

## Making a bullet

The lead ball or bullet was made at home by the firer, using a bullet mould provided with the pistol. Lead was melted over a fire and poured into the mould. After a

few seconds the scissor-like mould was opened and the ball shaken out. Excess lead or "sprue" was cut off with the shears incorporated into the mould handles.

Lead bullets

Black gunpowder

Nozzle forms

a measure

obsolete.

The butt

rear part

of stock

LINEN PATCH To fit tightly in the barrel, the bullet was wrapped in a cloth or leather patch.

SENSITIVE TRIGGER above Many duelling pistols had a special "hair" or "set" trigger,

worked by an extra

spring in the lock.

These light triggers

allowed the user to

Wooden end

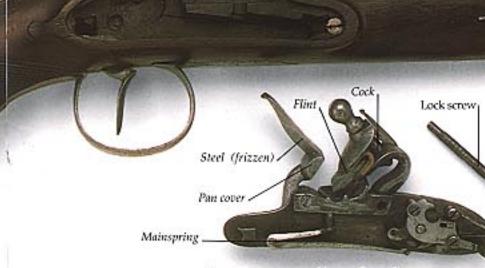
for holding

ramrod

fire the pistol without

disturbing his aim.

Metal end for ramming bullet doton bore.



Cleaning a flintlock

 Extract any unfired ball and powder from barrel using tool attached to ramrod or special cleaning rod.

2 Clean and oil empty barrel with cloth attached to ramrod or cleaning rod.

Oil can for

the jaws of the lock

3 Brush away burnt gunpowder in and around priming pan.

5 Replace flint if worn out. Oil lock.



The priming pan

needed frequent

TURNSCREW

A turnscrew was used for

removing the lock.

oiling lock and barrel

FLINTS AND LEATHERS Leather was used to grip the flint in

fought in France

A non-fatal duel.

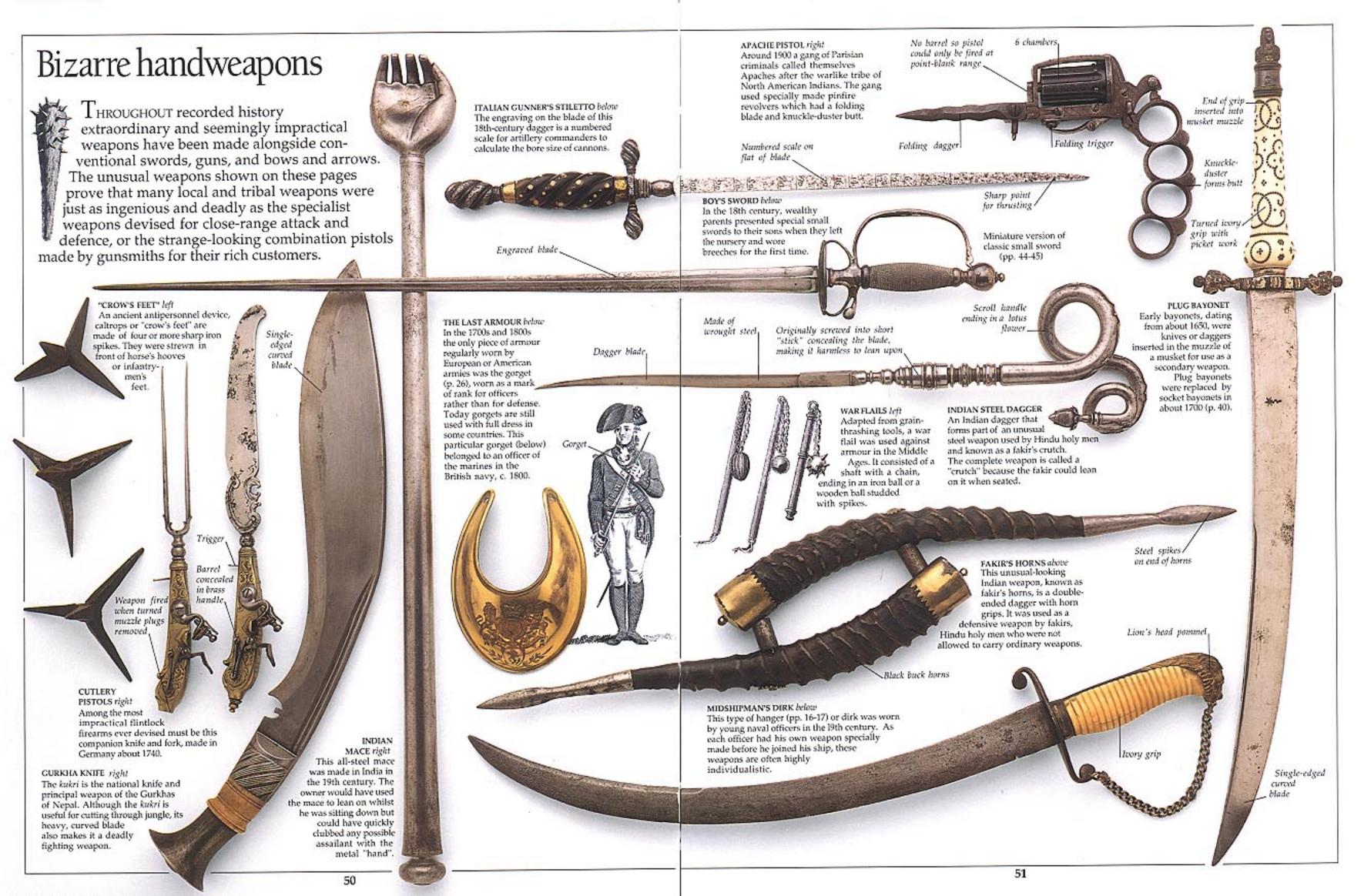
BULLET MOULD Bullets were made by pouring melted lead into the hollow chamber of the bullet mould (p. 57).

POWDER FLASK Gunpowder was kept in a powder flask. Originally made of wood or horn (p. 39), by the 19th century most powder flasks were made of metal. When self-contained cartridges were introduced. oowder flasks became

RAMROD A wood or metal ramrod (kept in a recess below the barrel) was used to push the ball and patch down the bore. Many ramrods had special attachments for cleaning out the bore.

47

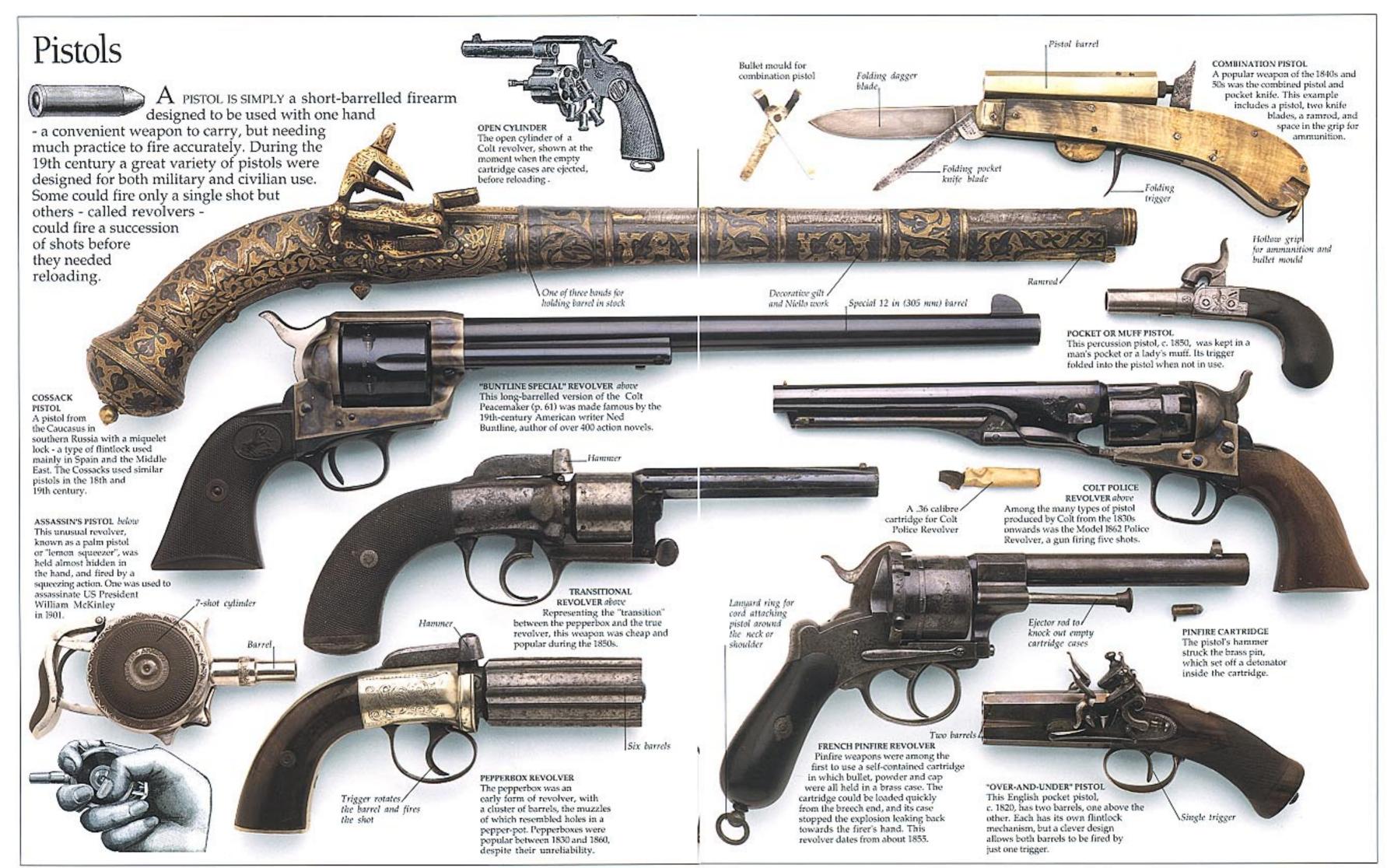


















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t-top b-bottom m=middle l=left r-right c=centre

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