

No. 683,384.

Patented Sept. 24, 1901.

W. F. COLE.  
CARTRIDGE FOR GUNS.  
(Application filed June 12, 1901.)

(No Model.)

Fig. 1

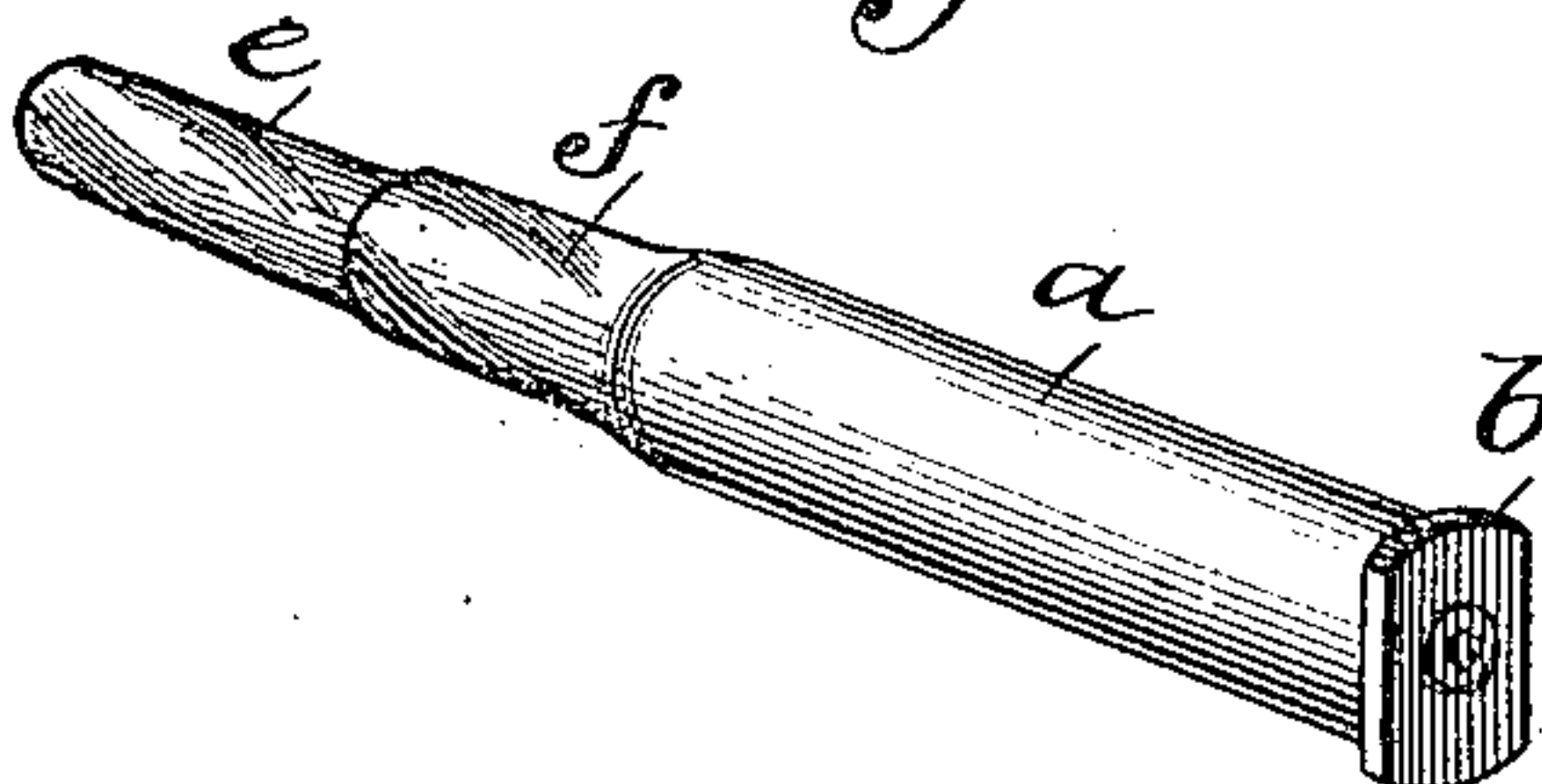


Fig. 2.

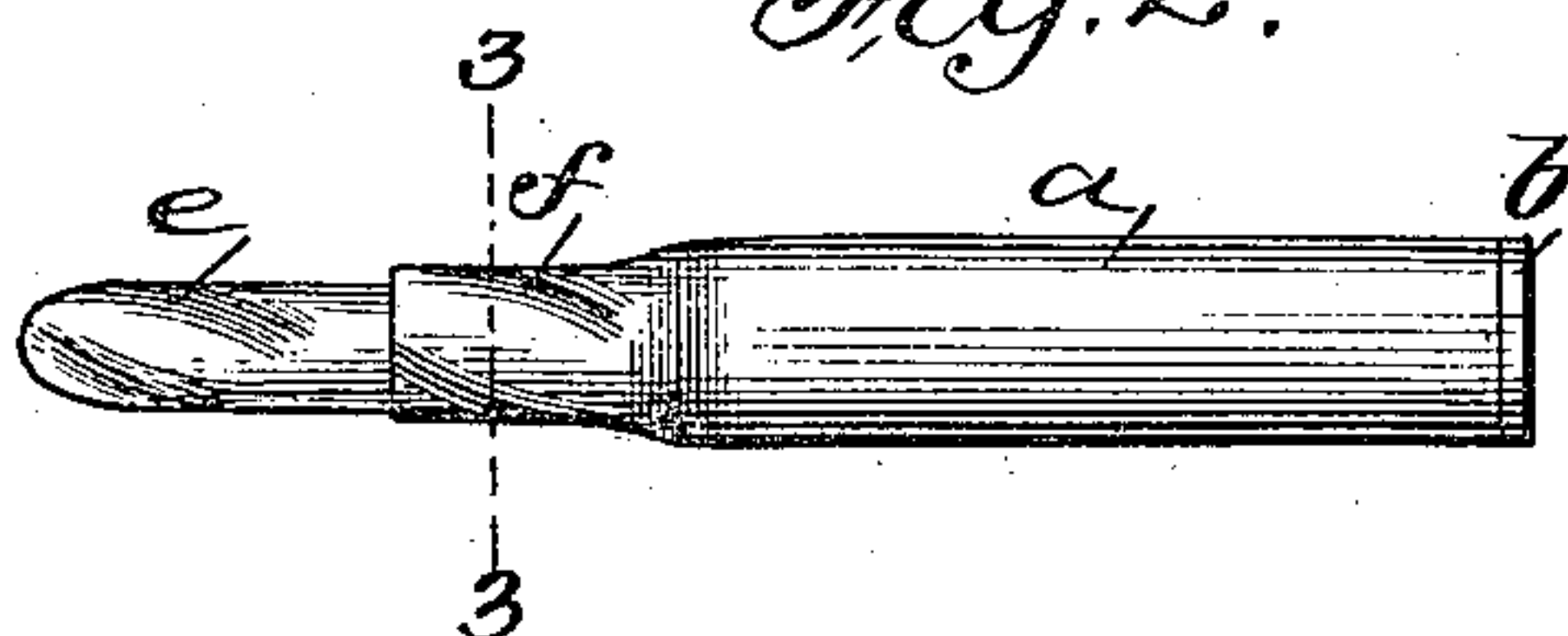


Fig. 3.

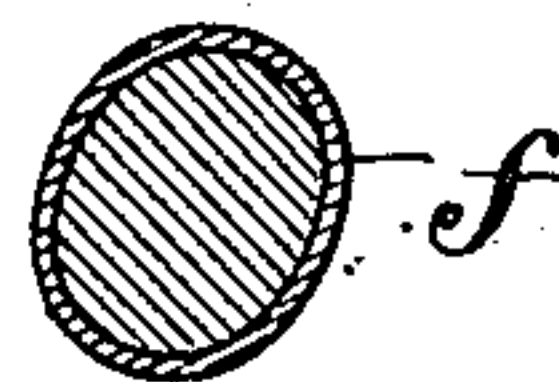


Fig. 4.

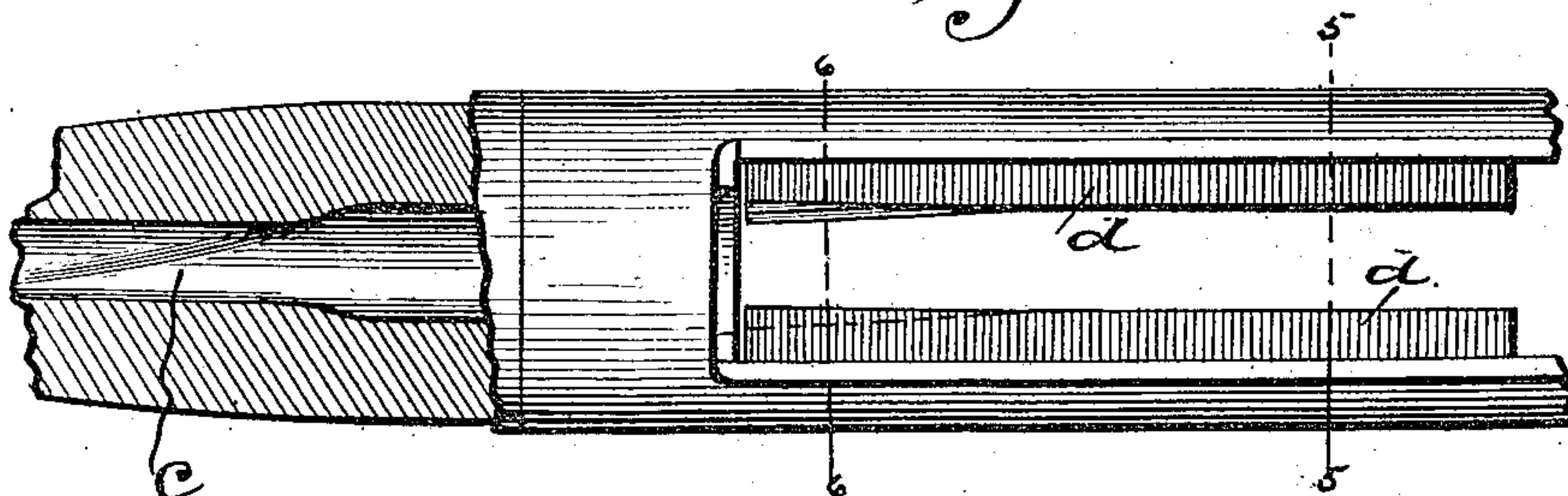


Fig. 5.

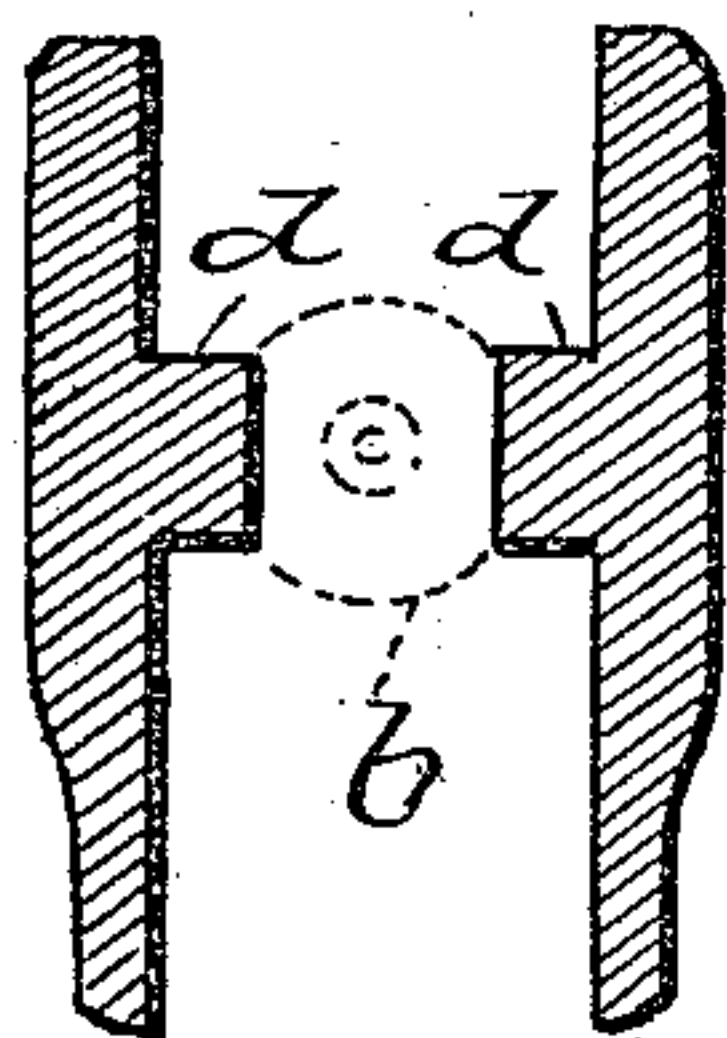
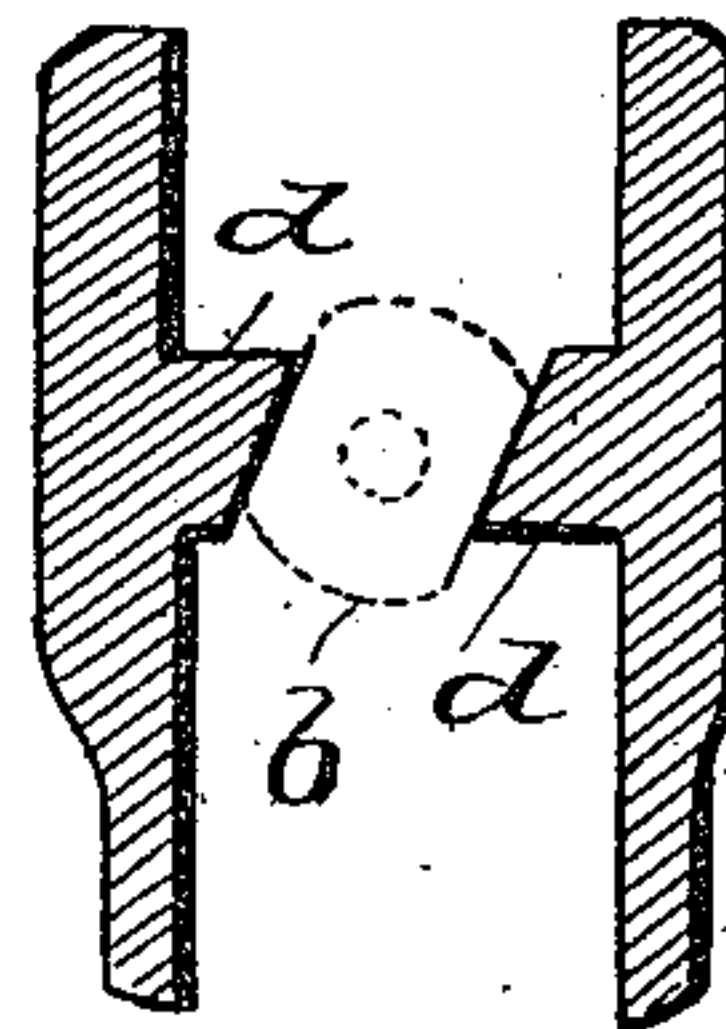


Fig. 6.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM F. COLE, OF WACO, TEXAS.

## CARTRIDGE FOR GUNS.

SPECIFICATION forming part of Letters Patent No. 683,384, dated September 24, 1901.

Application filed June 12, 1901. Serial No. 64,278. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM FRANKLIN COLE, of Waco, in the county of McLennan and State of Texas, have invented a new and useful Improvement in Cartridges for Guns, of which the following is a specification.

I have obtained Letters Patent No. 671,877, dated April 9, 1901, for a projectile having an elliptical cross-section and slight longitudinal twist for use in guns provided with a corresponding bore. When the projectile is inserted in the breech manually, it is easily manipulated, so as to insure its due presentation and prevent jamming, which would occur if its transverse axes were not in coincidence with those of the gun-bore. In guns provided with means for insertion of cartridges by action of a lever, sliding bolt, and supplemental devices, such as in the Mauser, Krag-Jorgensen, and other allied magazine types, it is necessary to so construct the cartridge proper and to provide the gun-breech with such guides as will insure the due presentation of the projectile for insertion, so that jamming will be prevented. I have filed an application for patent for an improvement in guns embodying guides of this character, and my present invention relates to the cartridge adapted for use therewith.

In the accompanying drawings, Figure 1 is a perspective view of a ball-cartridge embodying my invention. Fig. 2 is a plan view of the same. Fig. 3 is a cross-section on line 3 3 of Fig. 2. Fig. 4 is a plan view of a portion of a gun provided with cartridge-guides. Figs. 5 and 6 are vertical cross-sections on lines 5 5 and 6 6, respectively, of Fig. 4.

The cartridge *a* is chiefly distinguished by the form of its head—that is to say, the rim or flange *b* thereof is cut away at two points or on diametrically opposite sides, thus forming two straight parallel portions which serve as contact and guiding surfaces when the cartridge is being forced forward for insertion in the gun-bore *c*. The arrangement of guides *d* for the cartridge adjacent to the gun-breech and of the cartridge *a* therewith is illustrated in Figs. 4, 5, and 6. The faces of the guide-ribs *d* have a twist or transverse inclination corresponding to that of the bore *c*, so that the cartridge is turned or rotated slightly on its axis while being pushed forward into the bore. Thus the due presentation of the elliptical projectile or ball *e* is insured and jamming of the same in the bore is effectually prevented. The front or reduced end *f* of the cartridge is elliptical and twisted, corresponding to the projectile and gun-bore, as shown in Figs. 1, 2, and 3.

While the cartridge is preferably provided with two opposite flattened sides, I do not limit myself thereto, since it is within the scope of my invention to employ but one such side.

What I claim is—

A cartridge having its reduced end twisted and formed as an ellipse in cross-section and its flanged head provided with opposite flat sides as shown and described.

WILLIAM F. COLE.

Witnesses:

AMOS W. HART,  
SOLON C. KEMON.