

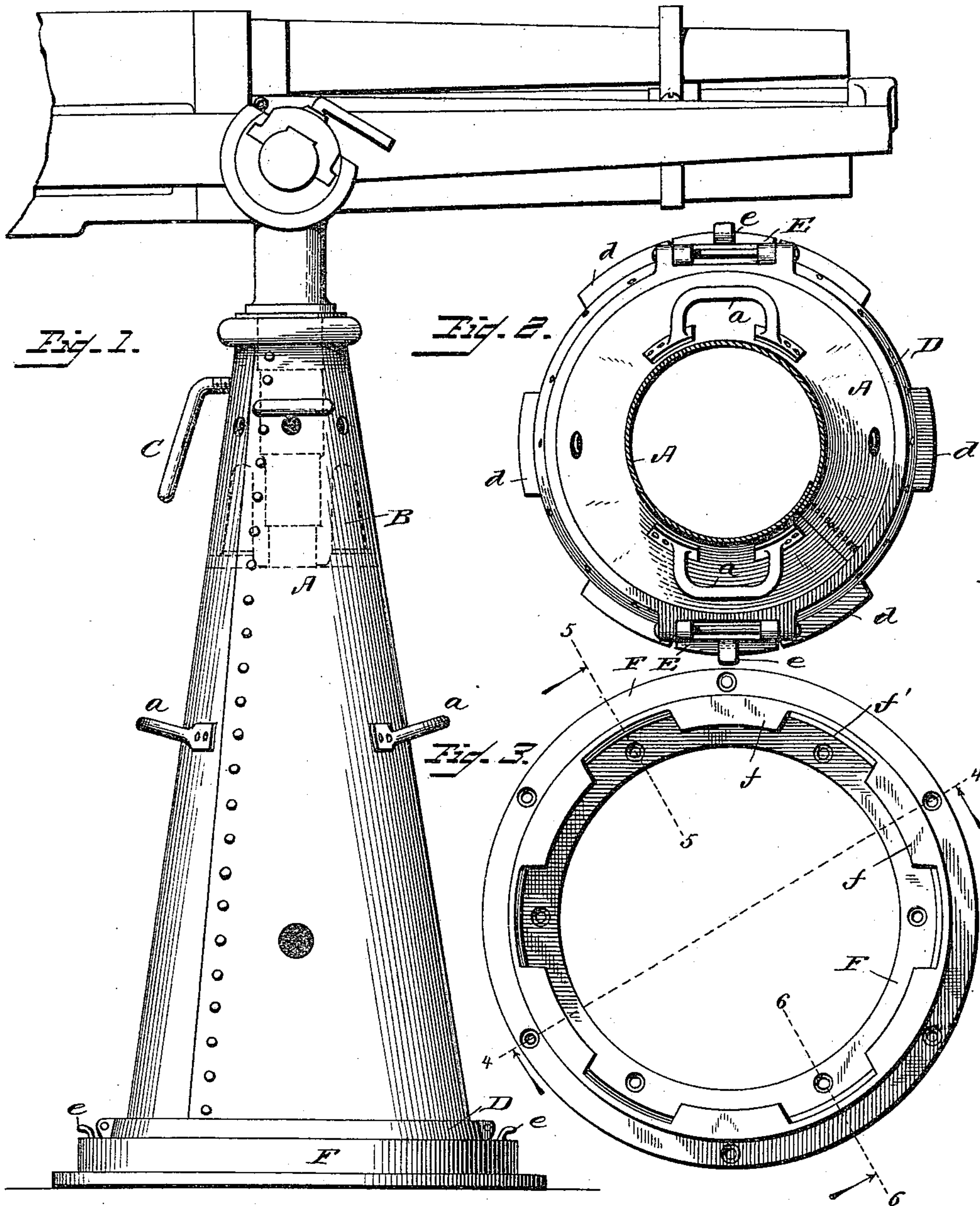
(No Model.)

2 Sheets—Sheet 1.

E. W. VERY.
JOINTED GUN MOUNT.

No. 426,482.

Patented Apr. 29, 1890.



Witnesses
Albert Speiden.

Inventor
Edward Wilson Very
By his Attorney *Woodbury Lowrey*

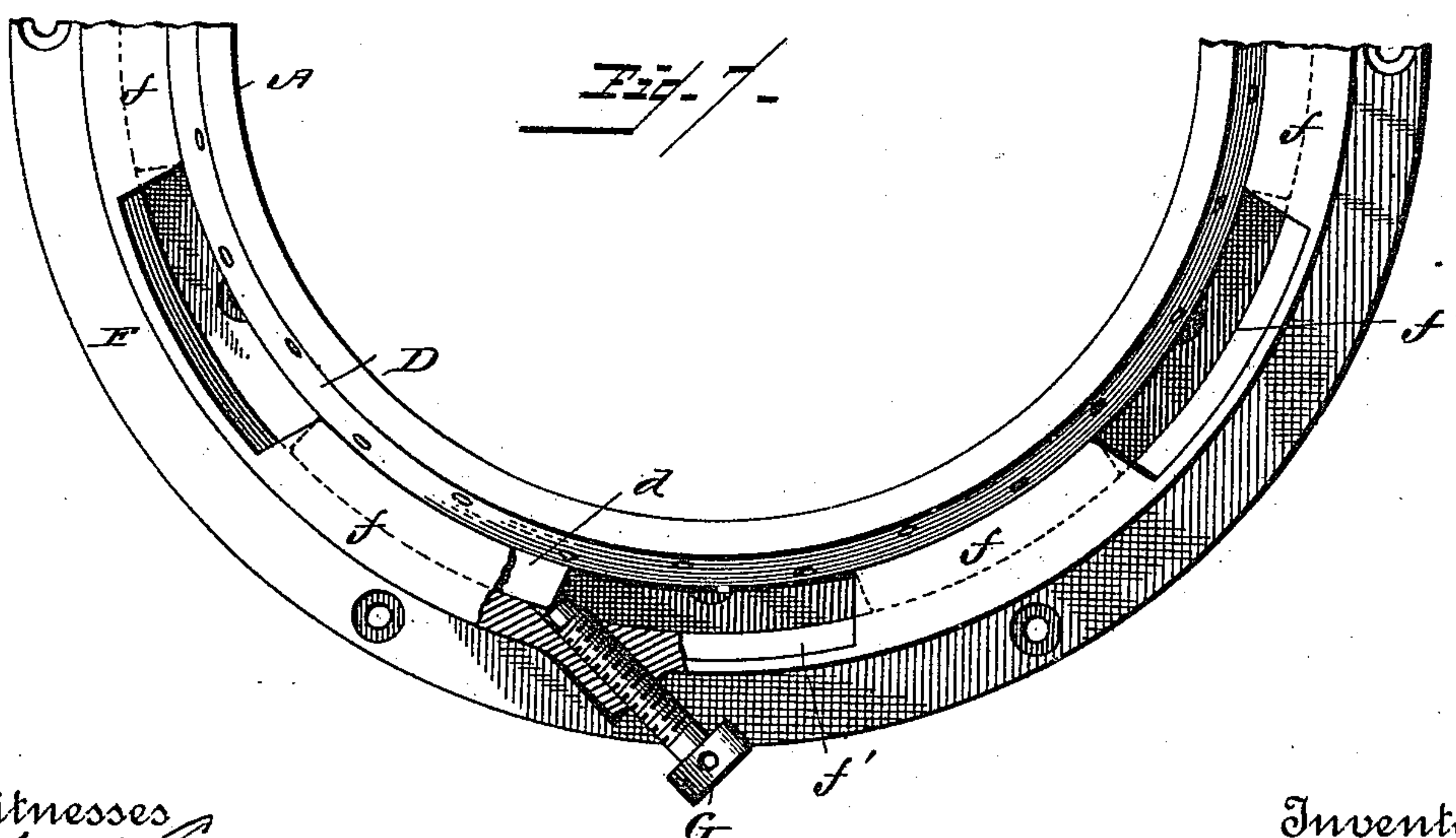
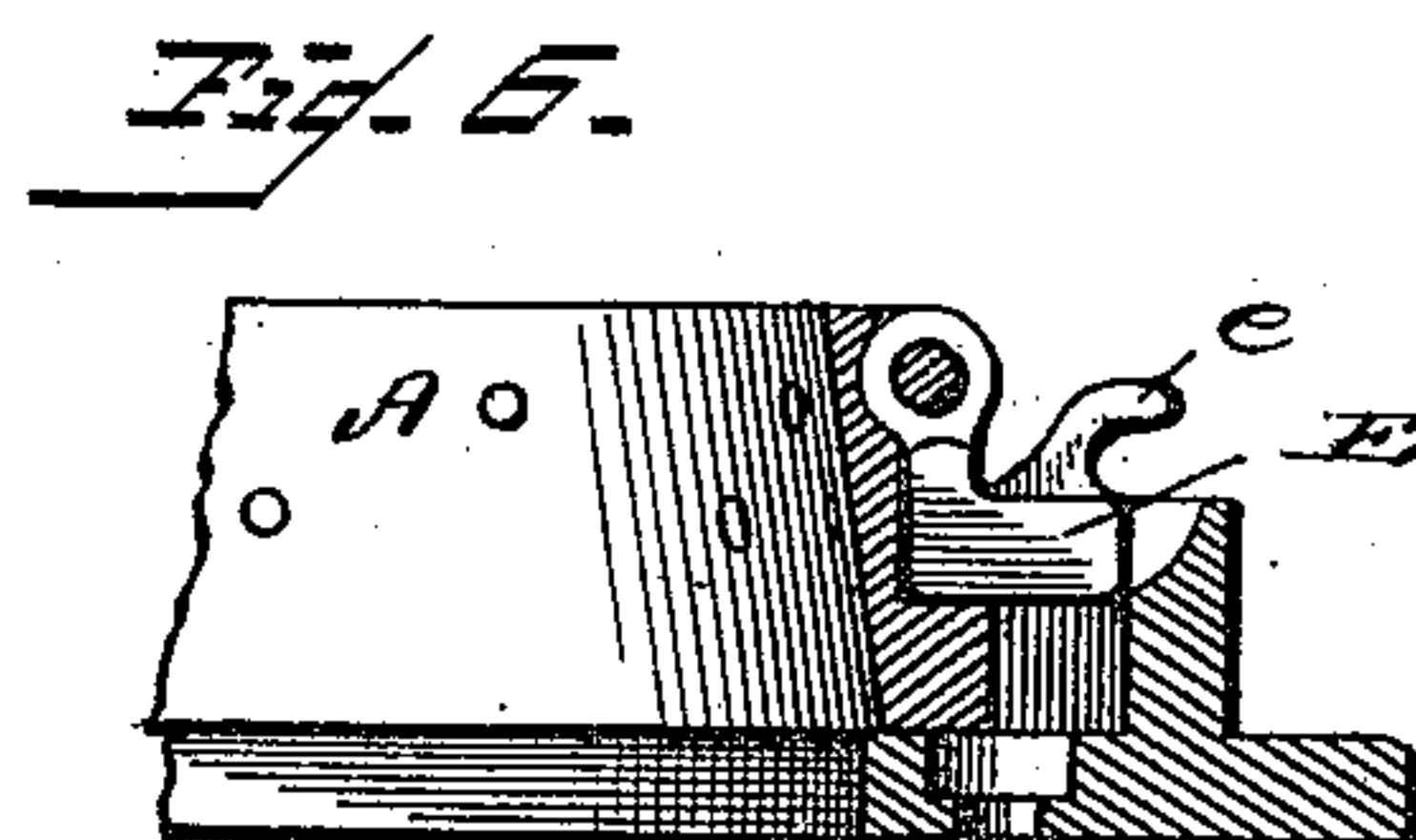
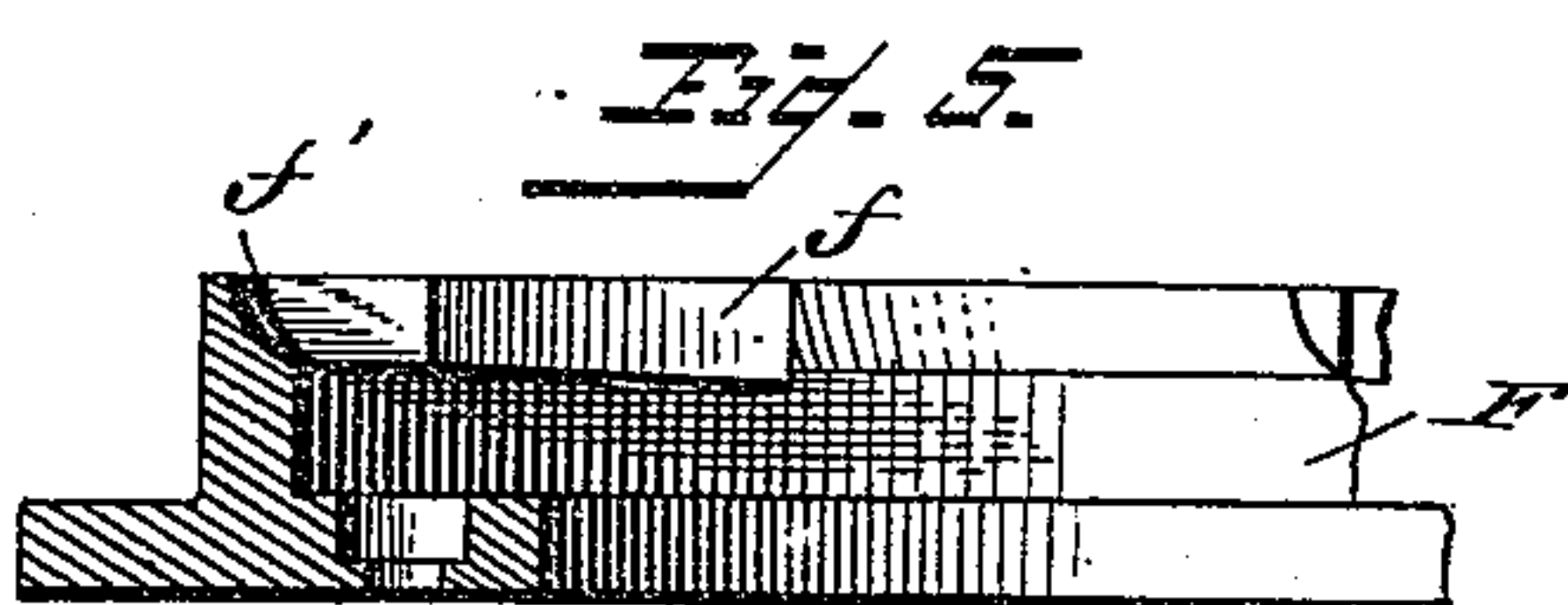
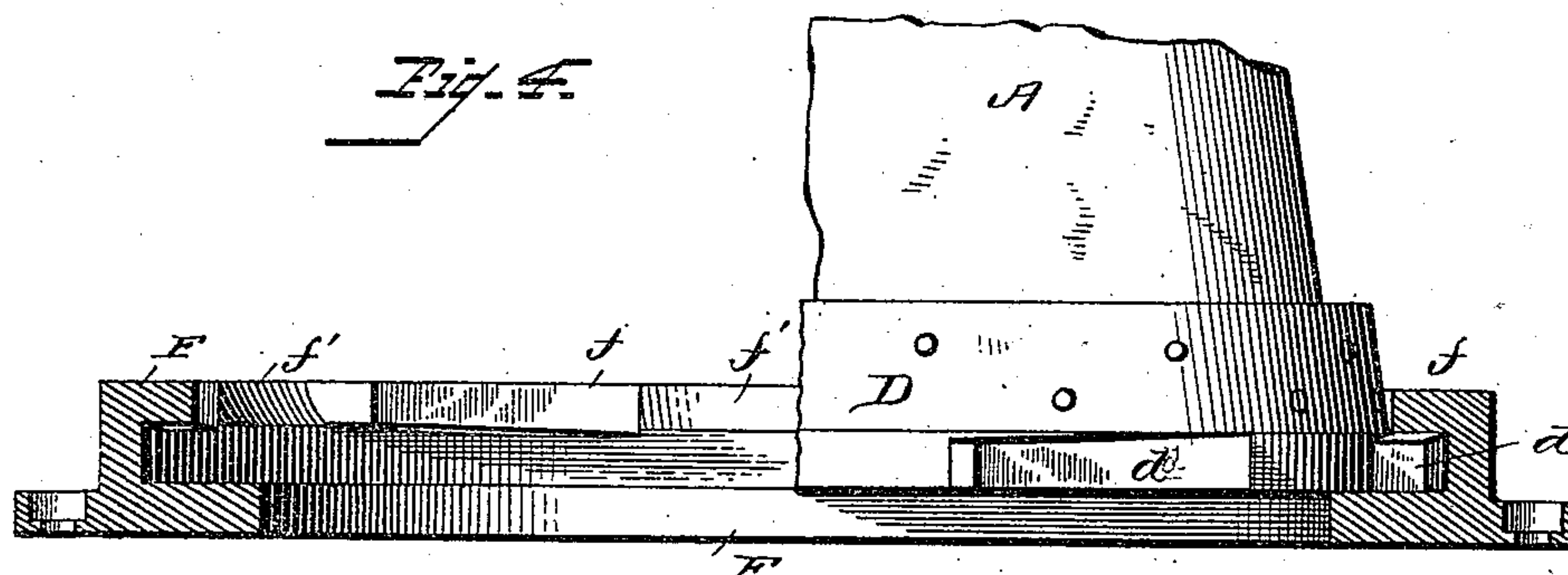
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UNITED STATES PATENT OFFICE.

EDWARD WILSON VERY, OF PARIS, FRANCE, ASSIGNOR TO THE HOTCHKISS
ORDNANCE COMPANY, (LIMITED,) OF LONDON, ENGLAND.

JOINTED GUN-MOUNT.

SPECIFICATION forming part of Letters Patent No. 426,482, dated April 29, 1890.

Application filed January 29, 1890. Serial No. 338,489. (No model.)

To all whom it may concern:

Be it known that I, EDWARD WILSON VERY, a citizen of the United States, residing at Paris, in the Republic of France, have invented a new and useful Improvement in Jointed Gun-Mounts, of which the following is a specification.

My invention consists of a cone-shaped mount for guns of light caliber, provided with a base-joint of such a nature as to secure rapidity and facility of rigid fastening in emplacements or positions where guns may be required, and rapidity and facility of unfastening from one emplacement and transportation and fastening in another emplacement. To obtain this result I provide a base-plate permanently fastened in each gun-emplacment in which it may be desired to secure the mount, and so shaped as to form, in connection with the construction of the bottom of the movable main body of the mount, a joint commonly known as a "bayonet-joint." In order to secure rigidity of fastening, I employ two or more metal blocks of single form hinged or otherwise conveniently attached either to the movable main body or to the base-plate, which, when the body is seated in the base-plate, can be dropped into the slotways of the bayonet-joint, locking or holding the body in such a manner that if a gun be mounted on the mount and fired the force of recoil, whose horizontal component always lies in or close to the vertical plane of symmetry of the mount, will not form an unbalance couple in connection with the resistance of any locking-block—that is to say, that the force of recoil, acting near the central line of the mount and having a lever-arm from its point of application to the resisting-surface of any one locking-block, will be balanced by having a lever-arm directly opposed, or nearly so, to this first lever-arm extending to the resisting-surface of another locking-block. Thus the movable main body of the mount is prevented from skewing or twisting in its seat in the base-plate when under the influence of the recoil force.

I construct the main movable body of the mount in the general form of the frustum of a cone and of steel or other metal of such intrinsic strength as shall enable me to make

the total body of the mount sufficiently light to permit of lifting or transporting it by hand-power and with facility, while retaining the strength necessary to resist strains of gun-fire.

In the accompanying drawings, which illustrate my invention, Figure 1 is an elevation of the mount complete with a gun mounted upon it. Fig. 2 is a plan view of the movable main body of the mount, showing the studs of the bayonet-joint as arranged around the periphery of its lower edge, and also showing two locking-blocks hinged to the lower edge at the extremities of a diameter. Fig. 3 is a plan view of the permanently-fixed base-plate, showing the slotways and clips of the bayonet-joint. Fig. 4 is a view, partly in cross-section, of the same on the line 4 4 of Fig. 3, showing the slotways and clips on the base-plate and the studs on the bottom of the movable main body. Fig. 5 is a cross-section on line 5 5 of Fig. 3, showing a clip and slotway. Fig. 6 is a view, partly in cross-section, showing a hinged locking-block; and Fig. 7 is a plan view, partly in section, of the base-plate and bottom of the movable main body, showing another form of lock.

A is the main body of the mount, constructed of a single piece of sheet metal folded and riveted to form a cone-frustum. In the upper end of the cone is secured a metal filling-piece B, so arranged as to form a socket for a gun-pivot.

C is a screw-clamp for holding the pivot in any azimuth position.

a a are handles conveniently arranged for moving, lifting, or carrying the movable main body A of the mount.

D is a metal ring secured to the bottom periphery of the sheet-metal cone A, provided with the radial projections *d d*, which form the studs of the bayonet-joint, and with two hinged locking-blocks E E, as shown in Figs. 2 and 6, having finger-latches *e e*.

F is the base-plate, which is permanently fixed at the emplacement and which consists of a ring having the inwardly-projecting clips *f f* and the slotways *f' f'*, forming, in combination with the studs *d d* on the main body A, a bayonet-joint. The base-plate F is also provided with bolt-holes, as shown, for per-

manently fastening it in place. The under sides of the clips *ff* of the base-plate *F* are not parallel to the general plan of the base-plate, but inclined to it, forming a helical surface, as shown in Figs. 4 and 5. In like manner the upper side of each stud *d d* on the main body *A* forms a helical surface of the same pitch, (see Figs. 4 and 5,) so that when the studs *d d* are dropped into the slotways *f' f'* of the base-plate *F* and turned in the right direction the main body *A* is tightly locked against movement in a vertical direction, as shown in perspective in Fig. 4.

The mount is secured in place as follows: The base-plate *F* being rigidly bolted to the floor of the emplacement, the main body *A* is lifted and seated in the base-plate, the bayonet-studs *d d* of the body entering the slotways *f' f'* of the base-plate. The body is then given a partial rotation, the studs *d d* sliding under the clips *ff* until the helical surfaces of both stud and clip come in contact, thus wedging the body in its seat. The locking-blocks *E E*, which I have here shown as hinged to the ring *D* on the body *A*, now lie fair for dropping into their slotways *f' f'*, and, being turned down, their ends come in contact with the ends of the clips *ff*. To facilitate their entrance into the slotways, the upper edges of the slotways are beveled, as shown in Figs. 5 and 6. The mount is thus securely fastened, for it stands on its base and is held against lifting by being wedged under the clips and against rotation by the locking-blocks.

In Fig. 7 I have shown another form of locking device, which consists of a screw-bolt *G*, working in the base-plate *F* and screwed up against the end of the stud *d* to prevent its turning after the body *A* has been rotated into place.

I do not limit myself to the combination of a bayonet-joint with the particular form or construction of gun-mount shown in the drawings, neither do I limit myself to the number of locking devices shown in combination with the bayonet-joint, neither to the sheet-steel body of the mount, as the entire body may be a single casting.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a portable gun-pedestal having radial studs, of a base having slotways and clips, whereby a bayonet-joint is formed between the mount and the base, substantially as described.

2. The combination, with a portable gun-pedestal having radial studs with an inclined helical surface, of a base provided with slotways and having clips with inclined helical bottoms of the same pitch as the studs, substantially as described.

3. The combination, with a portable gun-pedestal having radial studs, of a base having slotways and clips and one or more locking devices, whereby the pedestal is jointed to the base and locked against movement in any direction, substantially as described.

4. The combination, with a portable gun-pedestal having radial studs, of a base having slotways and clips and one or more hinged lock-blocks, substantially as and for the purpose described.

5. A portable gun-pedestal having radial projecting studs adapted to form a bayonet-joint with a fixed base having suitable slotways and clips, substantially as described.

6. A portable gun-pedestal having radial projecting studs adapted to form a bayonet-joint with a fixed base having suitable slotways and clips and one or more hinged locking-blocks adapted to fit the slotways between said clips, substantially as described.

7. The combination of a portable gun-pedestal, a fixed base-plate, and a locking device for locking the pedestal to the base-plate and unlocking it for transportation, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

EDWARD WILSON VERY.

Witnesses:

HOWARD P. ELWELL,
EDWARD E. GISBURNE.