

No. 713,506.

Patented Nov. 11, 1902.

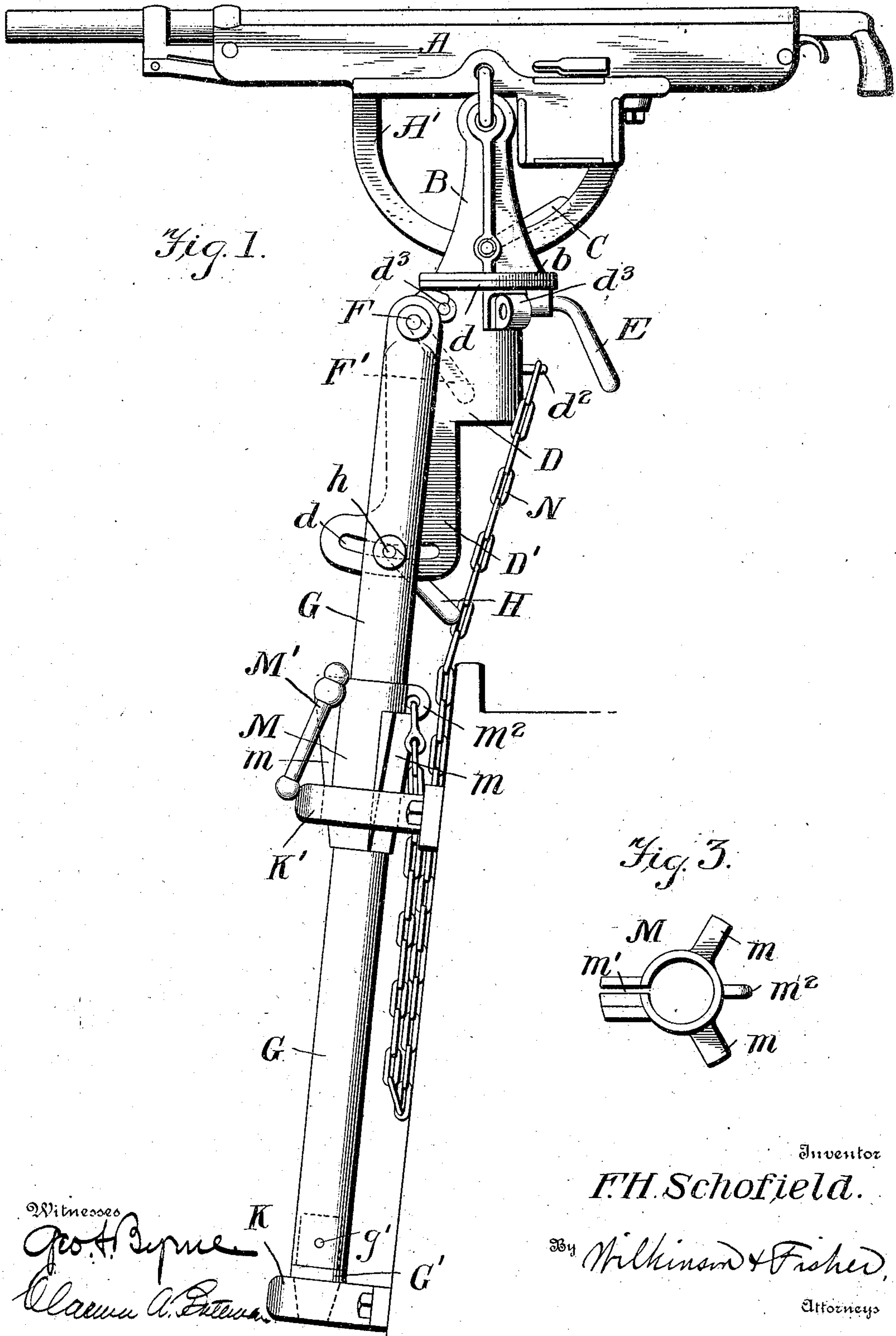
F. H. SCHOFIELD.

MOUNT FOR GUNS.

(Application filed May 14, 1902.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
Geo. H. Byrne  
Clarence A. Estlin

Inventor  
F. H. Schofield.

By Wilkinson & Fisher,  
Attorneys

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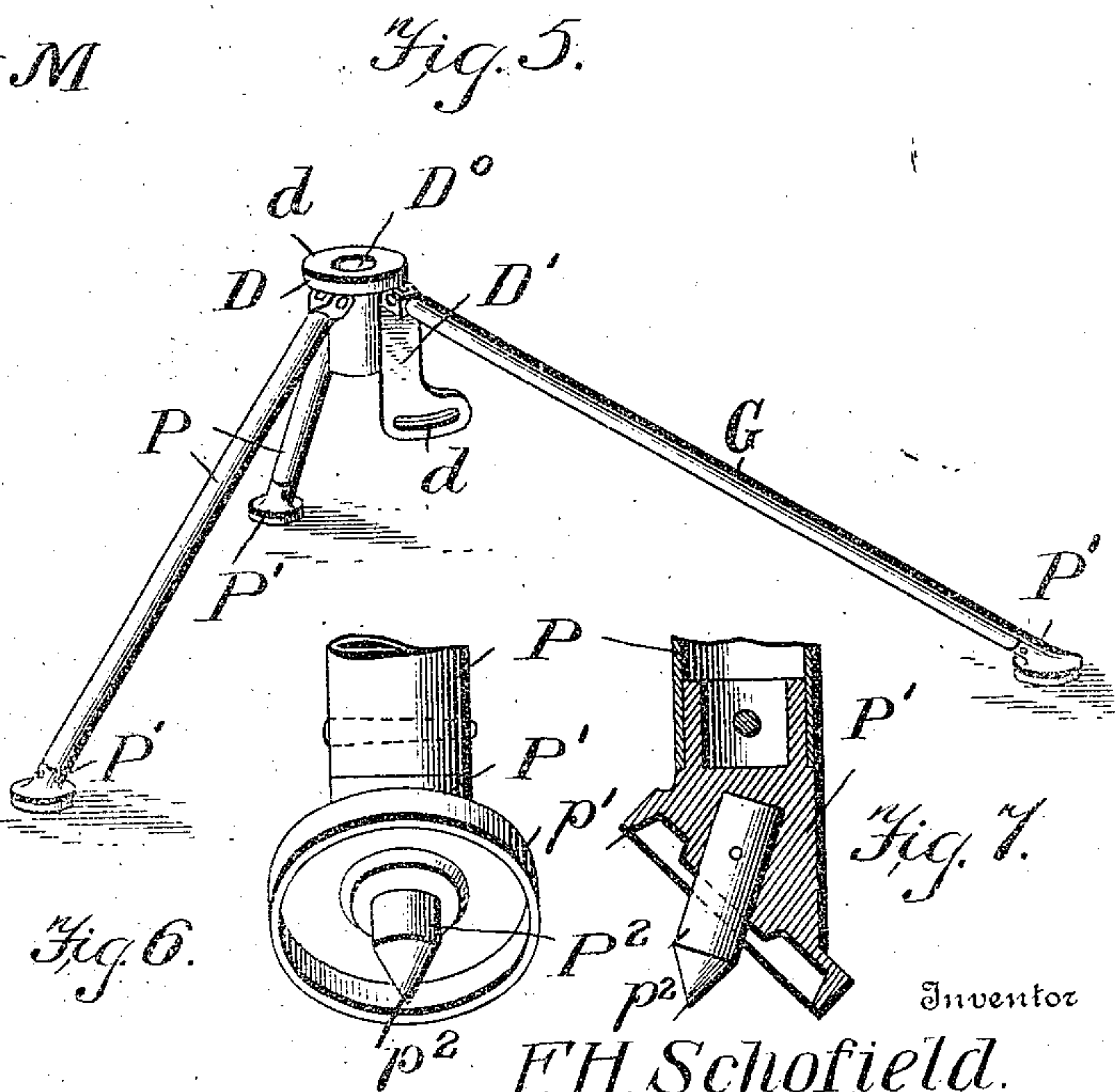
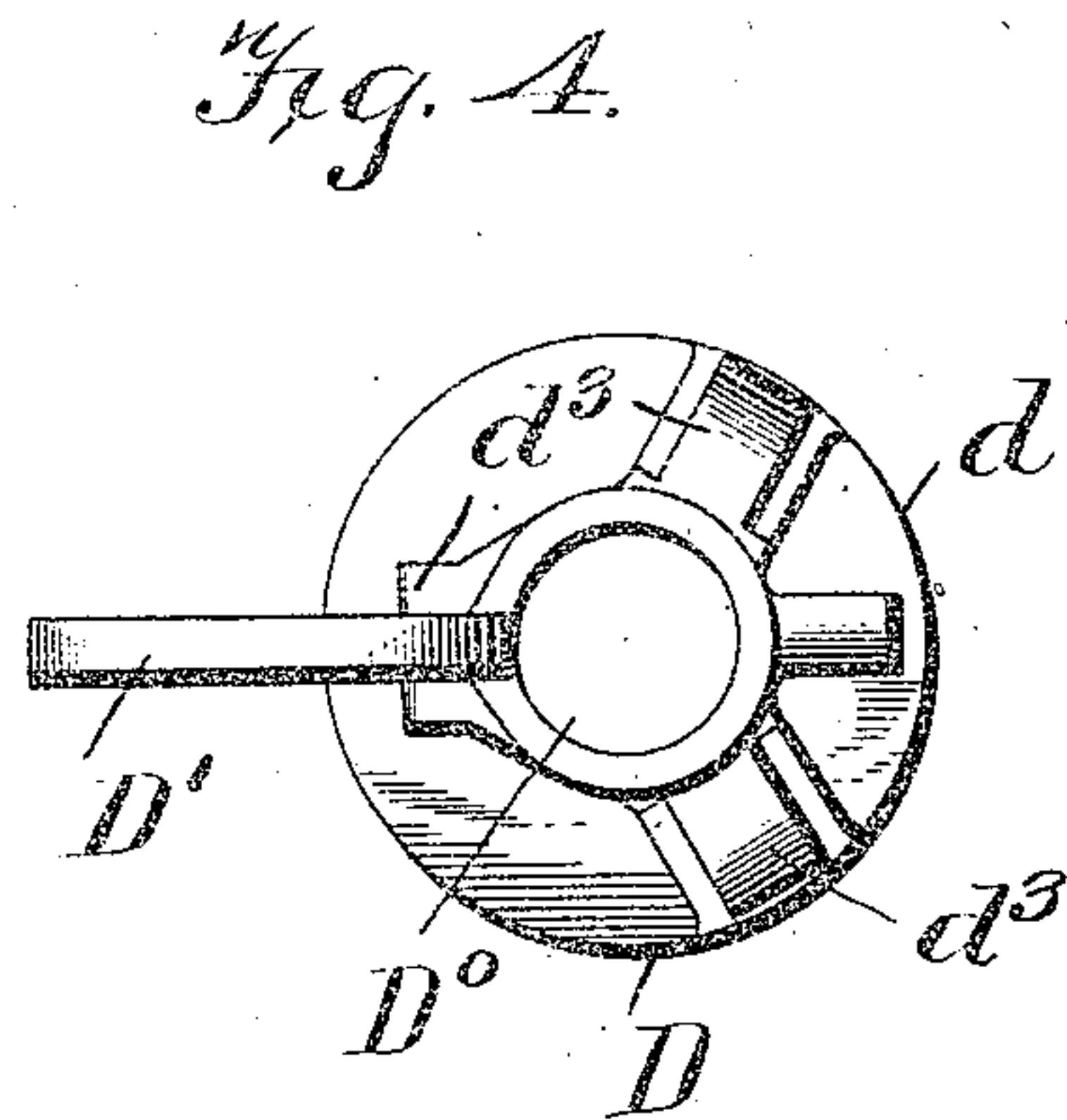
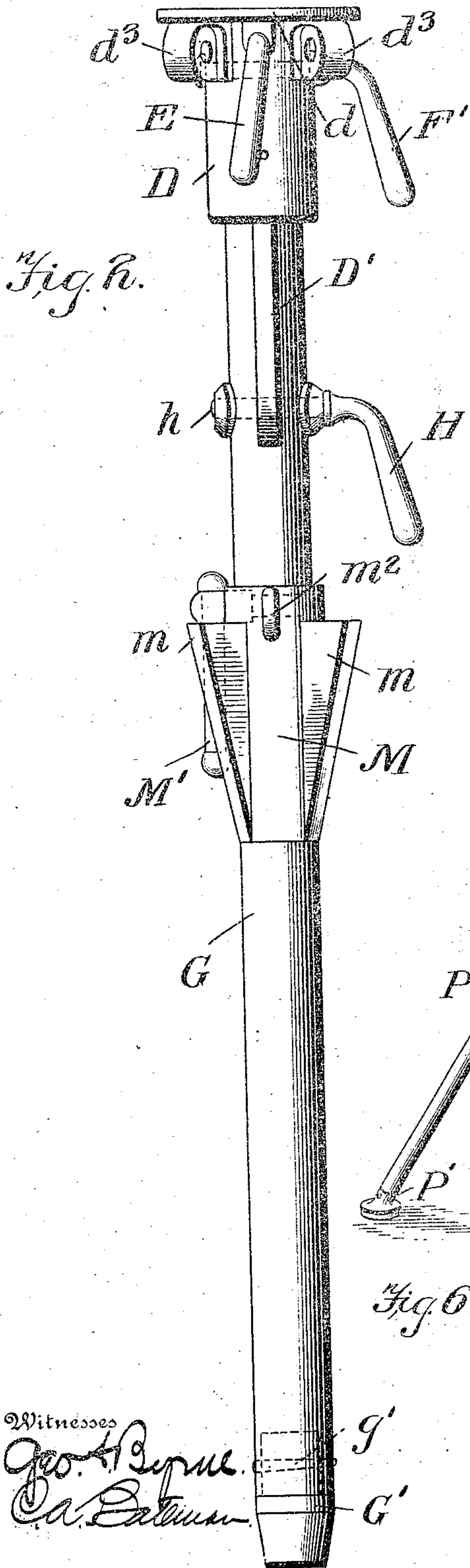
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Witnesses  
*Geo. H. Ryne*  
*C. A. Batten*

Inventor  
F. H. Schofield.  
By *Millinson & Fisher*,  
Attorneys



# UNITED STATES PATENT OFFICE.

FRANK HERMAN SCHOFIELD, OF THE UNITED STATES NAVY.

## MOUNT FOR GUNS.

SPECIFICATION forming part of Letters Patent No. 713,506, dated November 11, 1902.

Application filed May 14, 1902. Serial No. 107,323. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK HERMAN SCHOFIELD, lieutenant United States Navy, stationed at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Mounts for Guns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in carriages for guns, and it especially relates to carriages for machine-guns and guns of minor caliber. It is desirable that means be provided for readily installing guns of this class in different places on board ship and also for readily installing them in boats or mounting them on shore.

My invention will be understood by reference to the accompanying drawings, in which the same parts are indicated by the same letters throughout the several views.

Figure 1 represents a side elevation of the stand, mount, and gun set up on the side of a ship in the eyebolts or sockets ordinarily occupied by an awning-stanchion. Fig. 2 shows the stand, the gun and the mount being removed. Fig. 3 is a detail showing a detachable collar to be placed on the pillar of the stand, so as to cause it to fit in the upper eyebolt provided for the awning-stanchion. Fig. 4 is an inverted plan view of the mount-base at the head of the pillar. Fig. 5 is a perspective view showing this mount-base used on a tripod, and Figs. 6 and 7 are details showing the detachable feet of the tripod.

Referring now to Figs. 1, 2, and 3, these figures show details of a stand which may be set up in place of an awning-stanchion at any part of the ship and which may be removed from one part of the ship to another with the utmost facility. When in action, the awning-stanchions are always taken down, and their sockets, fast to the side of the ship, afford a convenient means for stepping the stand. Moreover, there being a great many of these sockets around the ship there is always a convenient holder for the stand at or near the desired point on the ship.

In the figures, A represents a gun on a mount B. This mount B is pivoted in the

socket D<sup>0</sup> (see Figs. 4 and 5) of the mount-base D. The requisite bearing-surface between the mount B and the mount-base D is furnished by the flanges *b* and *d*, respectively. The mount is clamped at the desired angle in train by means of the clamp-lever E. The mount-base D is pivoted on the pin F' at the head of the pillar G, which pin also serves to clamp the forked portions of the pillar to the web of the mount-base and is arranged to be shipped and unshipped quickly by means of the arm F', secured thereto or integral therewith.

The mount-base D has a downwardly-projecting web D', provided with an arc-shaped slot *d*, into which passes the pin *h*, which, with the hand-lever H, forms a clamp for clamping the gun-support D at the desired angle. The purpose of this is to adjust the mount for the different inclinations of the ship's side and for the rake of the boat's mast. In some places the ship's side tumbles home much more than in others, and the awning-stanchions, as a rule, are parallel with the side of the ship, or the mast rakes considerably, and it is desirable to have the gun mounted with its upper carriage practically horizontal.

K and K' are the sockets or eyebolts for the awning-stanchion, which are secured to the sides of the ship in the usual way. Since the pillar G would ordinarily be smaller in diameter than the awning-stanchion, I provide an adjustable collar M, which is slipped over the lower end of the tube and is clamped in place by means of a clamp M'. This collar is split, as at *m'*, to enable it to be moved up and down on the pillar G and is then clamped in place. This collar M is provided with a plurality of tapering ribs *m*. At the base of the tube I provide a suitably-tapered heel-piece G', which may be secured in place by a pin *g'*. This heel-piece is adapted to fit in the step K, provided for the heel of the awning-stanchion.

In stepping the stand the pillar G is put down through the eye K' until the heel-piece G' engages the socket K. Then the collar M is slid down until the ribs *m* engage the eye K', and the said collar is clamped in place by means of the hand-lever M'. The gun and mount may now be put in position and



the carriage is ready for use. In order to prevent the collar M from being accidentally dropped overboard, I may provide a chain N, fast to the eye  $d^2$  on the gun-support and to the eye  $m^2$  on the collar M. It will be obvious that any other form of heel-piece or any other form of collar may be applied, if desired, whereby the pillar G may be caused to fit any suitable frame or holder.

10 The pillar G may be used in the mast-hole of a boat, the heel-piece G' fitting in the step for the mast and a suitable collar M on the said tube projecting into the hole in the thwart of the boat. In stepping the stand in  
15 a boat the collar or sleeve may be inverted and clamped on the pillar below the thwart in such a manner as to lock the stand to the boat, and thus obviate any danger of its being displaced in rough water.

20 Thus it will be seen that I have shown a gun-stand capable of use either in the holders already provided for a stanchion, davit, or the like on board ship or in the step provided for the mast in a boat. In order to allow of its use on shore after being landed  
25 from the boat, I provide suitable lugs or sockets  $d^3$  on the mount-base D, to which the legs P of a tripod are secured, as shown in Fig. 5. These legs may be carried along in  
30 the boat, and when the landing is made the stand G may be removed from the boat and assembled with two tripod-legs P and then the gun put in place as before. In order to make the tripod-legs hold firmly in the  
35 ground, detachable shoes P' may be used, having cup-shaped flanges  $p'$  and carrying spikes  $P^2$ , pointed as at  $p^2$ . (See Figs. 6 and 7.) One of the detachable shoes P' may be placed on the said pillar G in place of the  
40 heel-piece G'. When used as a tripod-leg, the pillar G should have the clamp H removed and also the collar M.

Thus it will be seen that I provide a cheap, light, and simple stand for small guns which  
45 may be speedily assembled or taken apart and which may be used on board ship or in a boat and by the simple addition of a limited number of parts, as a tripod-stand, may be used on shore.

50 By adopting the tubular form for the pillar G, the tripod-legs p, and the mount-base D great strength is secured with corresponding lightness.

It will be obvious that various modifications  
55 in the herein-described mount and in the parts thereof may be made which could be used without departing from the spirit of my invention.

While I have herein shown and described  
60 my improved stand as adapted to a gun-carriage, it will be understood that these improvements may be utilized for the support of other machines, such as search-lights, which require a vertical adjustment on a horizontal  
65 axis and a lateral training on a vertical axis. I therefore do not intend to restrict my invention to a gun-carriage.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a gun-mount, the combination with a pillar provided with an adjustable collar thereon, of a mount-base secured to said pillar, and a gun mounted above said mount-base, substantially as described.

2. In a gun-mount, the combination with a pillar provided with an adjustable collar thereon, of a mount-base connected to said pillar, an upper carriage pivoted on said mount-base and detachably connected thereto, and a gun mounted in said upper carriage, substantially as described.

3. In a gun-mount, the combination with a pillar, of a mount-base secured thereto, an upper carriage detachably mounted on said mount-base, and a gun mounted on said upper carriage, substantially as described.

4. In a gun-mount, the combination with a pillar, of a mount-base detachably connected thereto and provided with lugs adapted to receive tripod-legs, an upper carriage detachably mounted on said mount-base, and a gun mounted on said upper carriage, substantially as described.

5. In a gun-mount, the combination with a pillar, of a mount-base detachably connected to said pillar and provided with lugs adapted for use with tripod-legs, and a gun mounted above said mount-base, substantially as and for the purposes described.

6. In a gun-mount, the combination with a pillar, of a mount-base mounted thereon and provided with a downwardly-projecting web with a curved slot therein and also with lugs adapted to be used with tripod-legs, and means for clamping said web at the desired angle with reference to said pillar, substantially as described.

7. In a gun-carriage, the combination with a pillar provided with a tapered heel-piece and an adjustable collar, of a mount-base, pivoted on said pillar and detachably connected thereto, substantially as and for the purposes described.

8. In a gun-carriage, the combination with a pillar provided with an adjustable collar thereon, of a mount-base detachably connected to said pillar, substantially as and for the purposes described.

9. In a gun-carriage, the combination with a pillar provided with a tapered heel-piece and an adjustable collar, of a mount-base pivoted on said pillar and detachably and adjustably connected thereto, substantially as and for the purposes described.

10. In a gun-carriage, the combination with a pillar, of a mount-base and means for adjustably connecting said pillar to said mount-base, substantially as described.

11. In a gun-carriage, the combination with a pillar provided with a tapered heel-piece and a movable and adjustable collar, of a mount-base pivoted on said pillar and detachably and adjustably connected thereto,



substantially as and for the purposes described.

5 12. In a gun-carriage, the combination with a pillar, of a mount-base mounted thereon and provided with a downwardly-projected web with a curved slot therein, with means of clamping said web at the desired angle relative to said pillar, substantially as described.

10 13. In a gun-carriage, the combination with a pillar provided with an adjustable collar thereon, of a mount-base mounted on said pillar and provided with a downwardly-projecting web with a curved slot therein and a clamp-screw passing through said slot and said pillar, substantially as and for the purposes described.

15 14. In a gun-carriage, the combination with a pillar provided with a tapered heel-piece and an adjustable and movable collar, of a mount-base mounted on said pillar provided with a downwardly-projecting web with a curved slot therein, and a clamp-screw passing through said slot and said pillar, substantially as and for the purposes described.

25 15. In a gun-mount, the combination with a

pillar provided with an adjustable collar thereon, of a mount-base detachably connected to said pillar and a gun mounted above said mount-base, substantially as and for the purposes described.

16. In a gun-mount, the combination with a pillar, of a mount-base detachably connected thereto, an upper carriage detachably mounted on said mount-base, and a gun mounted on said upper carriage, substantially as described.

17. In a gun-mount, the combination with a pillar provided with an adjustable collar thereon, of a mount-base detachably connected to said pillar, an upper carriage pivoted on said mount-base and detachably connected thereto, and a gun mounted in said carriage, substantially as and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK HERMAN SCHOFIELD.

Witnesses:

F. W. CORNWALL,

M. J. KANE.