3 Sheets—Sheet 1.

A. H. McALLISTER.

Machine Gun.

No. 201,810. Patented March 26, 1878.

Fig. 1.

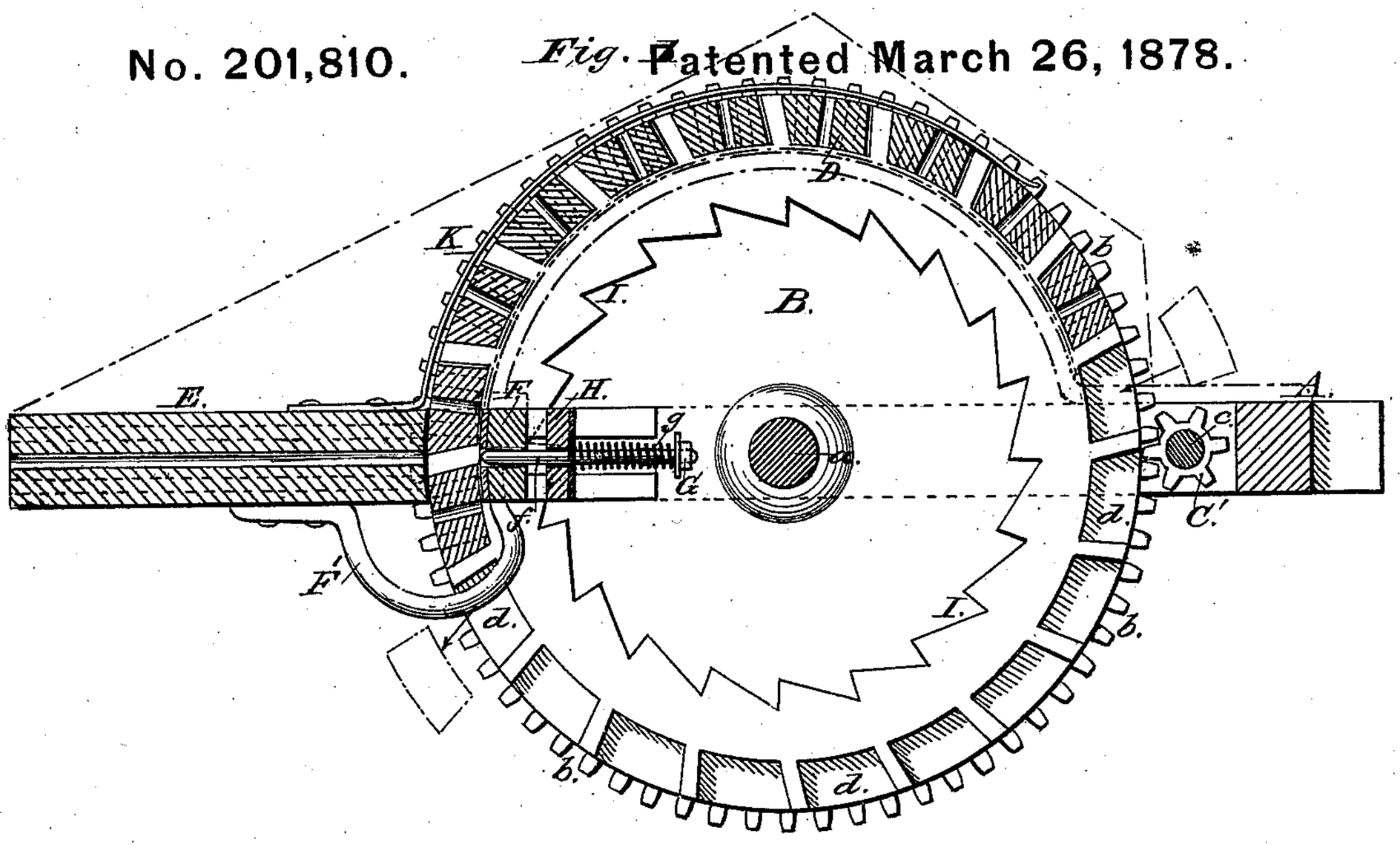
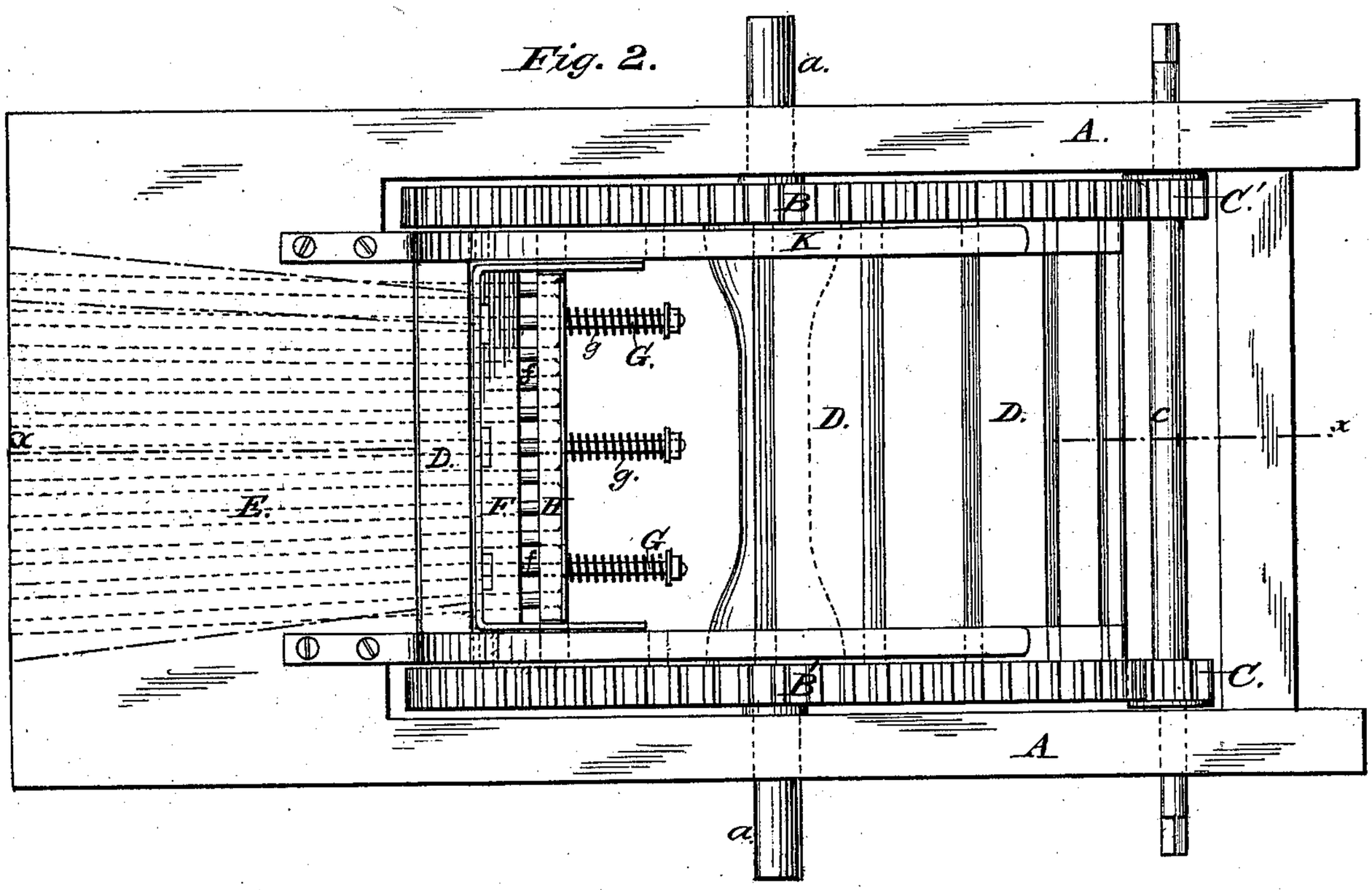


Fig. 2.



Witnesses:

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Percy A. Plant.

Inventor:

Albert H. McAllister

3 Sheets—Sheet 2.

A. H. McALLISTER.

Machine Gun.

No. 201,810. *Fig. 3.* Patented March 26, 1878.

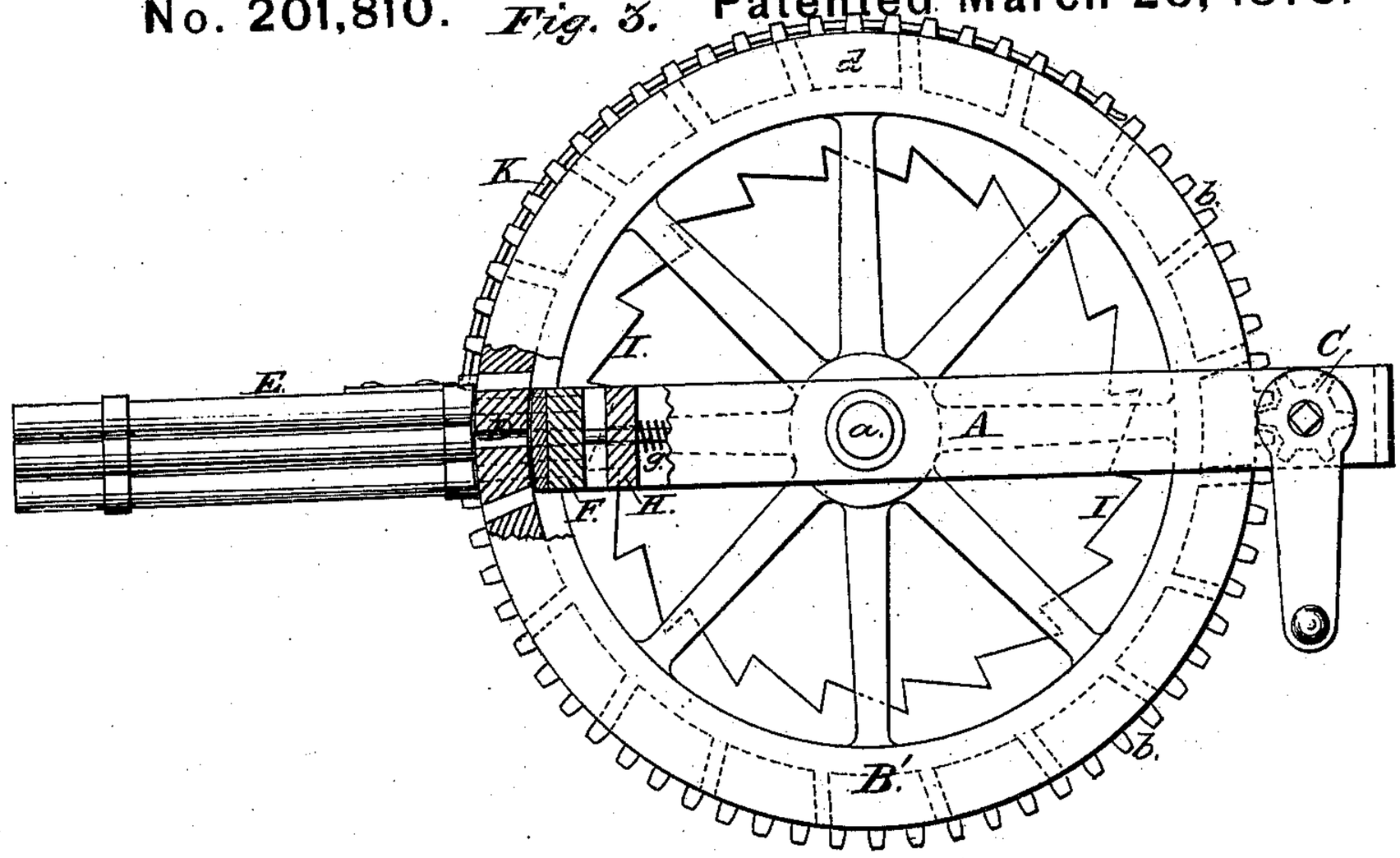
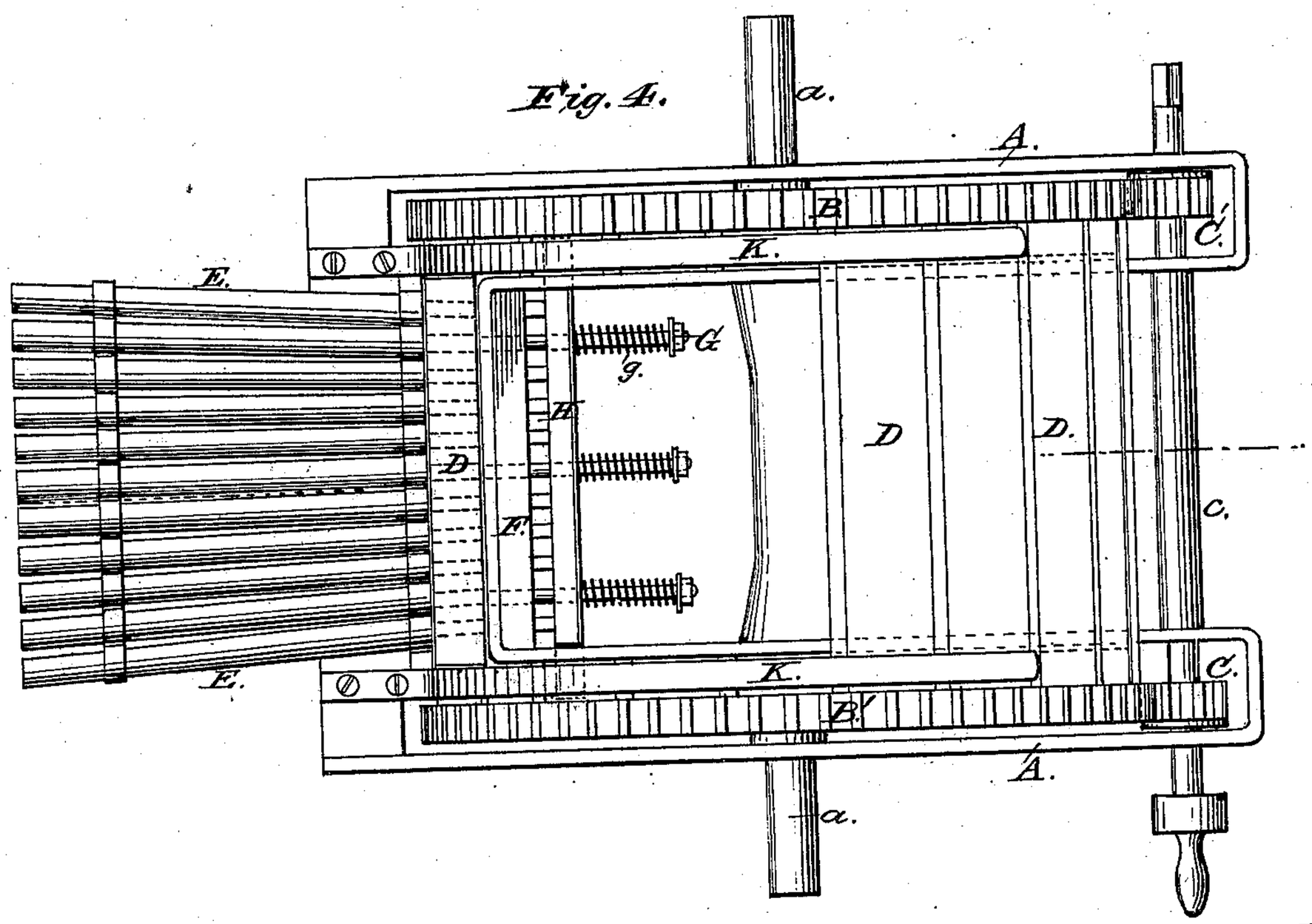


Fig. 4.



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A. H. McALLISTER.

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Fig. 5.

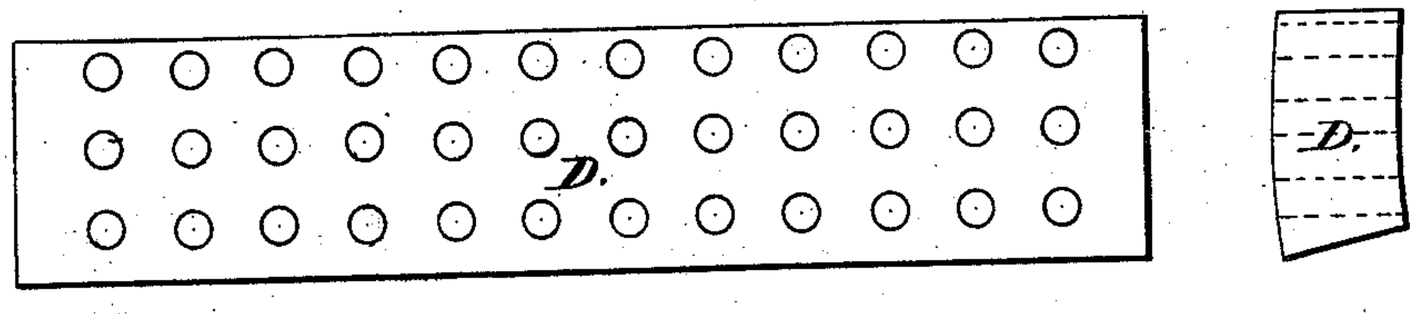
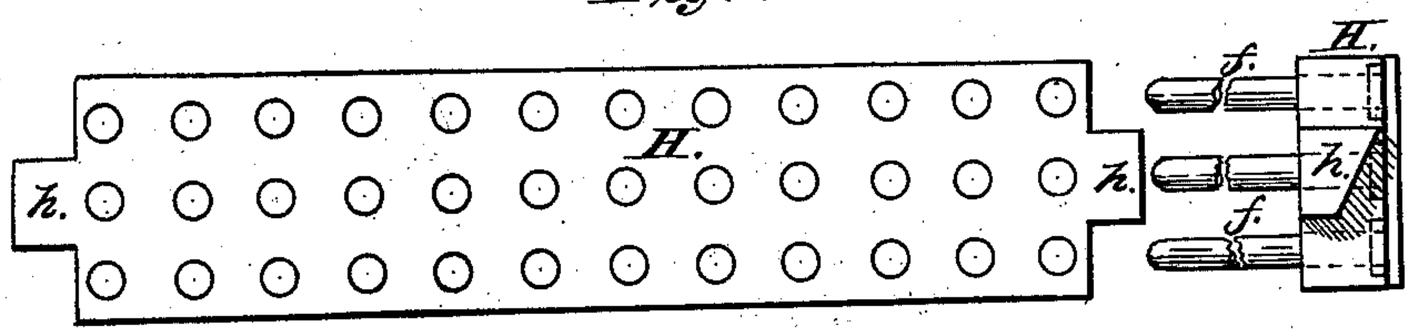


Fig. 6.



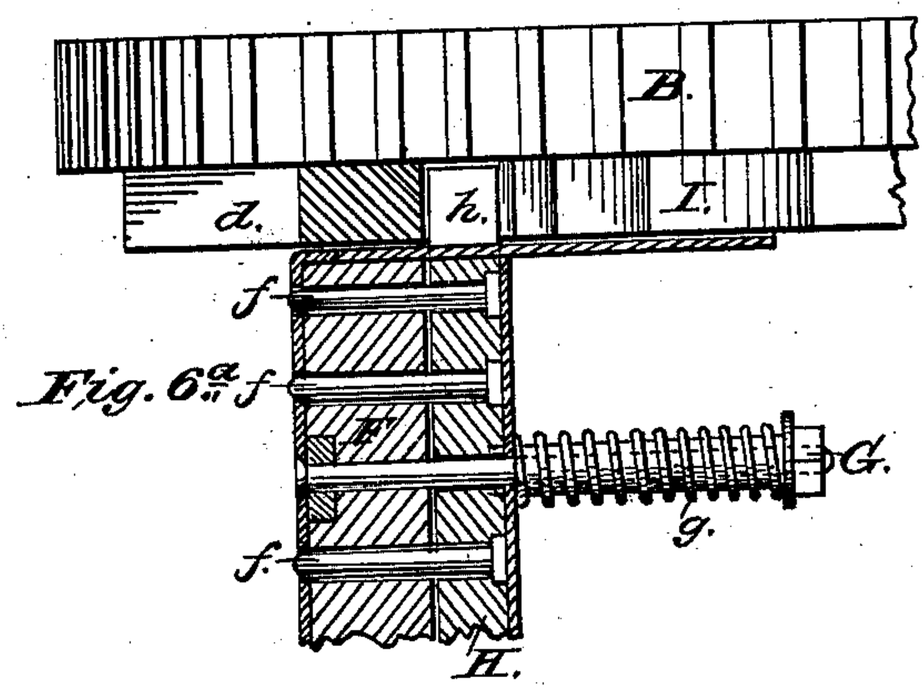
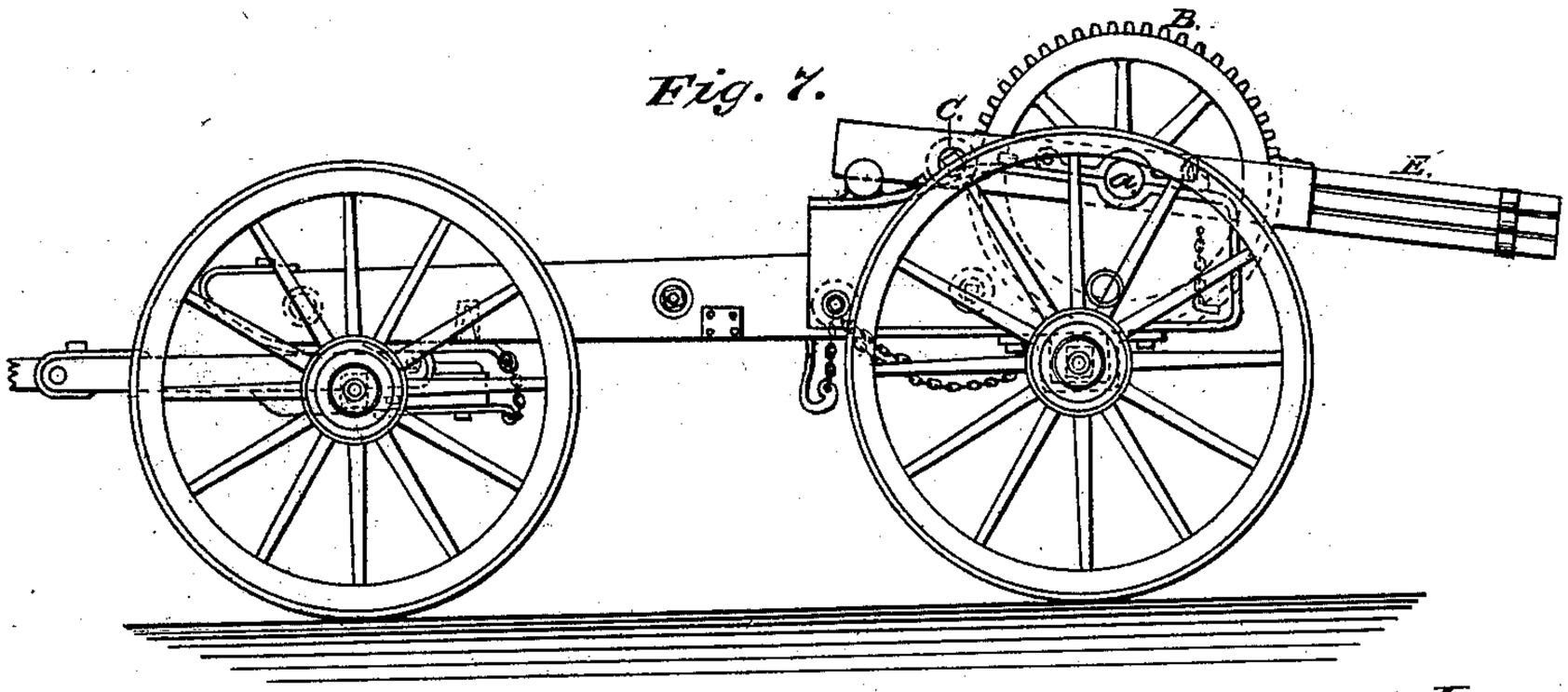


Fig. 7.



Witnesses:

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Percy A. Plant

Inventor:

Albert H. McAllister

UNITED STATES PATENT OFFICE.

ALBERT H. McALLISTER, OF COTTON PLANT, MISSISSIPPI.

IMPROVEMENT IN MACHINE-GUNS.

Specification forming part of Letters Patent No. **201,810,** dated March 26, 1878; application filed March 18, 1878.

To all whom it may concern:

Be it known that I, ALBERT H. McALLISTER, of Cotton Plant, in the county of Tippah and State of Mississippi, have invented certain new and useful Improvements in Machine or Battery Guns; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to what is called "machine or battery guns;" and the object is to provide a gun that is very simple in its construction, not liable to get out of order, and which will be very effective in its execution.

The invention consists of a pair of wheels provided with teeth on their periphery to mesh with suitable pinions to operate them, journaled in a suitable frame. On the inner sides of these wheels are arranged, near the periphery, recesses for receiving bars containing the cartridges. Below these are arranged ratchet-teeth, by which the firing-pins, secured in a sliding bar, are alternately operated. In the front part of the frame are arranged one or more series of barrels, either made separate or bored or cast in a suitable plate of proper thickness, all of which will be more fully described in the annexed specification, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical cross-section of my gun on line *x x*, Fig. 2. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of a modification, partly in section. Fig. 4 is a plan view of the same. Fig. 5 is a front and end view of the cartridge-bar. Fig. 6 is a front and end view of the bar for the firing-pins; and Fig. 6ª is a detail view of the firing-bar and guide-bar, partly in section. Fig. 7 is a side elevation of the gun mounted.

In the drawing, A represents a suitable frame, made of wood or iron, in which is journaled a shaft, *a*, and upon this are secured the wheels B B′. These wheels are provided with teeth *b*, which mesh with the pinions C C′ on the shaft *c*, that is provided on its outer ends with square parts for the reception of a crank-handle. On the inner sides of the wheels B B′, and adjoining their periphery, are arranged any number of recesses, *d*, desired, for the reception of the bars D, into which the cartridges are placed. These bars are slightly beveled on their forward side, so as to more readily drop from their positions when the wheels are revolved and the cartridges contained therein have been discharged. In the space between the two wheels are arranged the barrels F, rifled or smooth-bored, as desired, and they may be made of separate barrels, as shown in Figs. 3 and 4. As close as possible to the bottom or inner side of the cartridge-bars is secured a guide-piece, F, supported on bars F′, or on the frame, as in Fig. 4, into which the firing-pins *f* enter, and to it are also secured two or more studs or guide-bars, G, upon which the firing-bar H, to which the pins *f* are secured, slides. Suitable springs *g*, of proper tension, are arranged on the bars G, to give force enough to the firing-pins *f* to explode the fulminate in the cartridges. The firing-bar H, having the beveled projection *h h*, (see Fig. 6) is moved backward by ratchet-teeth I on the wheels B B′, and, of course, when released, said bar is thrown suddenly forward by the springs.

Close to the wheels B B′, and extending over the recesses *d*, two curved bars, *k*, are secured to the frame A to hold the cartridge-bars in place in their recesses, and they extend toward the rear part of the gun, leaving merely space enough to place in the additional cartridge-bars as the wheels B B′ are revolved and the recesses *d* require replenishing. The ranges of the barrels may be varied as desired, as shown by the dotted and broken lines in Fig. 2. The number of cartridge-bars may be varied, according to the size of the wheels, and the number of holes for cartridges can be varied as desired, more or less. Any suitable materials can be employed in the construction.

An inclined or roof-shaped metal plate (shown in dotted lines, Fig. 1) may be secured to the front part of the frame, by which the operators of the gun would be protected from musketry-fire, and it would also protect the gun from rain, &c. Suitable screws can be arranged at any place to adjust and regulate it to any inequalities. It may be mounted

in any suitable manner on wheels, as desired, one plan being shown in Fig. 7. Suitable boxes are to be arranged in the frame to receive the journals of the wheels.

Arched metal plates (shown in dotted lines, Fig. 1) should be arranged close to the inner sides of the bars D, and attached to curved bars secured to and flush with the guide-bar F and the rear end of the frame A, to allow the heads of the cartridges to freely slide over them, and yet to prevent them from falling out.

The operation is as follows: The cartridge-bars D, being first filled, are placed into the recesses *d* of the wheels B B′, and motion is imparted to the machine by the crank-handles. As the bars D then come opposite the firing-pins, which are alternately drawn backward, the cartridges are exploded. After being exploded, and passing along by the revolution of the wheels B B′, they drop out by their own gravity, and can be then brought to the rear and refilled in any suitable manner.

The advantages of my machine-gun are that an incessant fire can thus be kept up, and without any danger of the gun getting out of order, as the parts would not become heated, as in ordinary guns; it is very simple in its construction; it can be very easily repaired; it can be operated by and requires but very few men; it could be made an excellent arm of defense in batteries, earthworks, &c.

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

1. In a machine-gun, the wheels B B′, provided with recesses *d* for the reception of the cartridge-bars D, constructed substantially as shown, and for the purpose specified.

2. In a machine-gun, the wheels B B′, provided with recesses *d* for the cartridge-bar D, and the ratchet-teeth I for operating the firing-bars H, constructed substantially as shown and described.

3. In a machine-gun, the wheels B B′, provided with recesses *d* and ratchet-teeth I, in combination with the curved bars K, cartridge-bars D, and firing-bars H, constructed substantially as shown, and for the purpose described.

4. In a machine-gun, the wheels B B′, provided with teeth *b*, recesses *d*, and ratchet-teeth I, in combination with pinion C, curved bars K, cartridge-bars D, firing-bars H, and barrels F, all arranged substantially as and for the purpose set forth.

5. The combination of the wheels B B′, provided with teeth *b*, recesses *d*, and ratchet-teeth I, with the pinion C, curved bars K, cartridge-bars D, firing-bars H, guide-bar F, and barrels E, all constructed substantially as shown, and for the purpose described.

6. In a machine-gun, the combination of the barrels E with the guide-bar F, firing-bar H, provided with pins *f*, and guide-bars G, having springs *g*, and the wheels B B′ and cartridge-bar D, constructed as shown, and for the purpose set forth.

7. The machine-gun herein described, consisting of a frame, A, wheels B B′, pinions C C′, barrels E, guide-bar F, firing-bar H, curved bars K, and suitable running-gear, all constructed and arranged for operation as herein shown, and for the purpose specified.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

A. H. McALLISTER.

Witnesses:

JOS. T. K. PLANT,

PIERCY A. PLANT.