

(No Model.)

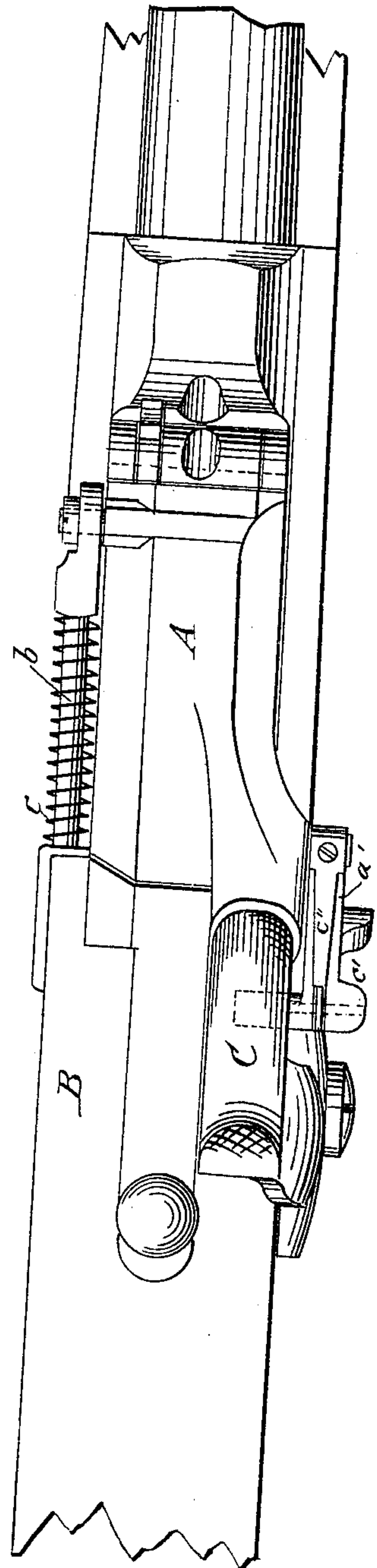
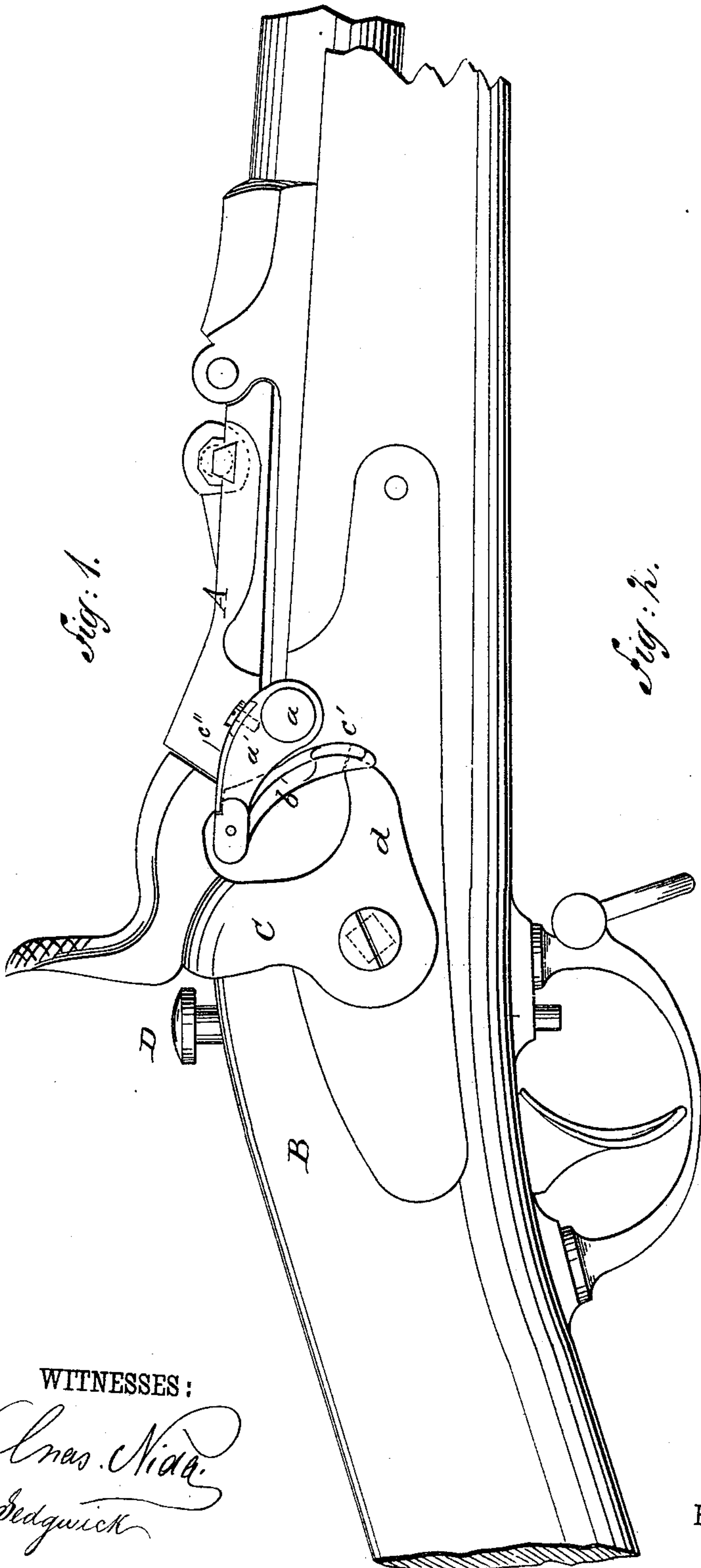
A. S. JONES.

2 Sheets—Sheet 1.

MAGAZINE FIRE ARM.

No. 270,808.

Patented Jan. 16, 1883.



WITNESSES:

Chas. Nida.
C. Sedgwick

INVENTOR:

A. S. Jones
Alum & Co
ATTORNEYS.

BY

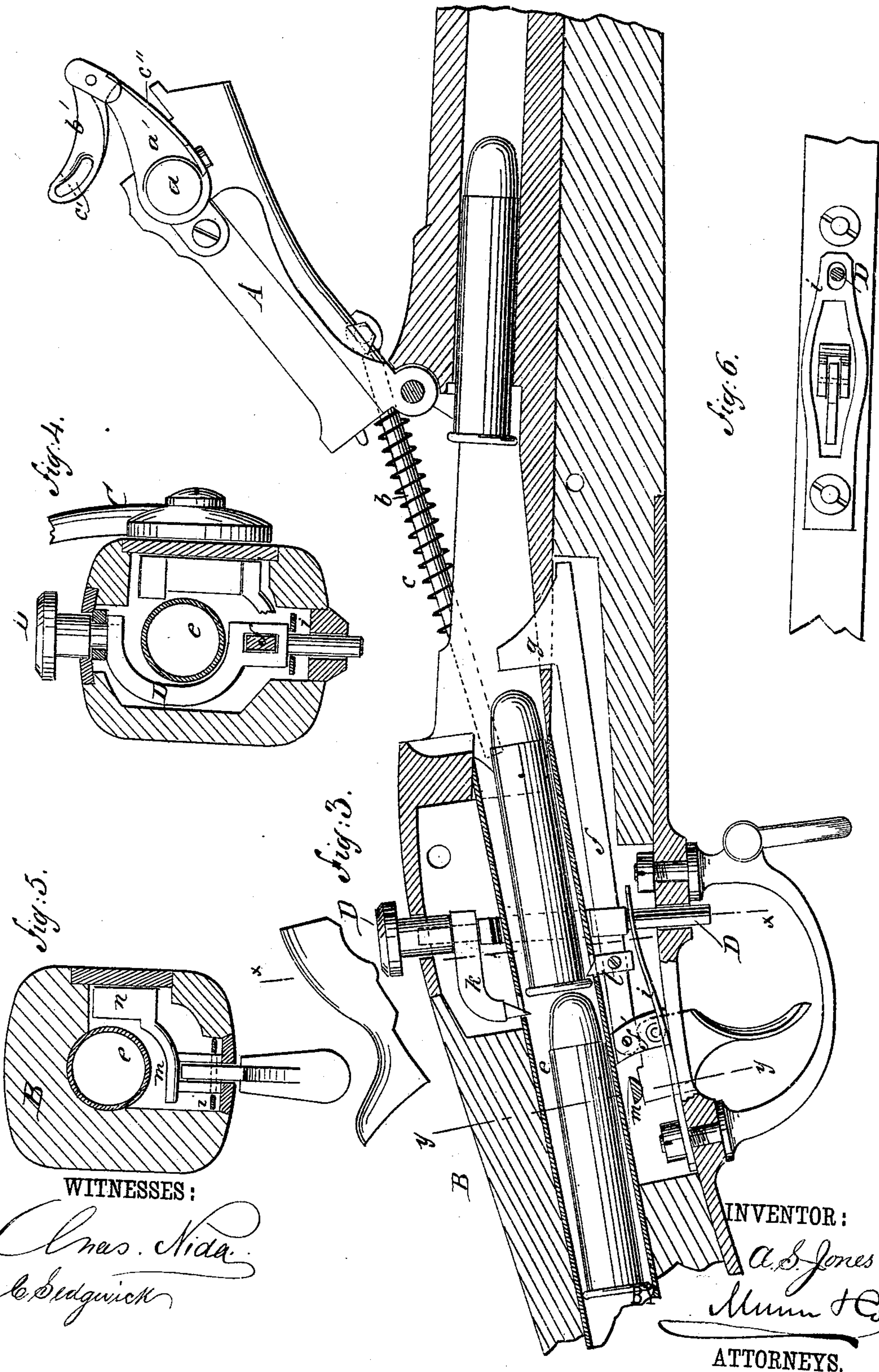
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UNITED STATES PATENT OFFICE.

A. SHERIDAN JONES, OF OLIVET, DAKOTA TERRITORY.

MAGAZINE FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 270,808, dated January 16, 1883.

Application filed July 22, 1882. (No model.)

To all whom it may concern:

Be it known that I, A. SHERIDAN JONES, of Olivet, Hutchinson county, and Territory of Dakota, have invented a new and Improved Magazine Fire-Arm, of which the following is a full, clear, and exact description.

My improvements relate to breech-loading fire-arms of the class employing a hinged breech-block fitted to swing upward and forward in opening the breech, the object being to provide that class of arms with a magazine that can be used or not at will.

The invention consists, first, in devices for automatically effecting the opening of the breech; and, second, in mechanisms for supplying the cartridges one by one, as required, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a gun of my improved construction. Fig. 2 is a plan view of the same. Fig. 3 is a central longitudinal section with the breech-block in open position. Fig. 4. is a section on line *xx*, Fig. 3. Fig. 5 is a section on line *yy*, Fig. 3; and Fig. 6 is a detail view.

A is the hinged breech-block, provided with a turning latch, *a*, for locking it in its closed position within the breech-cavity.

In construction the gun is generally similar to what is known as the "Springfield" arm, the variations from and additions to that arm being indicated hereinafter.

At one side of the breech-block and near its hinged end is pivoted a rod, *b*, which extends to and enters a mortise formed in the stock B, and upon this rod is a spiral spring, *c*, taking against the stock and against a shoulder upon the rod. This spring is for the purpose of raising the breech-block, thereby opening the breech-cavity when the latch is relieved, and it is compressed by the closing of the block and the consequent movement of the rod *b* in the mortise of the stock.

On the end of the turning latch *a* is a curved finger-piece, *a'*, which, when the block is closed, projects in front of the hammer C, this being the piece provided usually for turning the latch by hand. I provide for opening the latch by the movement of the hammer, as fol-

lows: Upon the base of the hammer is a tang or projection, *d*, extending beneath the arm *a'* of the latch.

On the end of the arm *a'* is a pivoted finger, *b'*, having a notch at its lower end, with which the tang *d* engages when the block is closed and the hammer down, so that when the hammer is raised the latch shall be turned forward to release the block A. The finger *b'* has a slight movement, and is provided with a spring, *c''*, with the object to allow a slight relaxation in order that the tang *d* may pass below the finger *b'* when the hammer descends. The lug *c'* is for use in pressing the finger *b'* back, to allow for cocking the hammer without opening the breech. This mechanism provides for automatically releasing and opening the breech-block whenever the hammer is cocked.

In the stock of the gun is fitted the magazine-tube *e*, that is provided with a spring for projecting the cartridges, as is usual, and this magazine-tube opens into the rear of the breech-cavity.

In a recess beneath the magazine-tube a bar, *f*, is pivoted to a lug, *f'*, and the forward end of this bar is formed with a projecting flange, *g*, that extends into the breech-cavity through a slot in the bottom thereof. The forward portion of the flange *g* is made of curved form, the object of this flange being to insure the throwing of the empty cartridge-shells out of the breech-cavity, as hereinafter set forth.

Transversely through the breech of the gun is a slide-rod or plunger, D, and this plunger is formed, as shown in Figs. 3 and 4, with an aperture, through which the bar *f* extends, so that the plunger and bar shall move together. A plate-spring, *i*, fitted in the recess of the stock, takes, at its outer end, beneath a projection on the plunger, and acts to retain the plunger and the bar *f* in their raised position. Above the magazine-tube the plunger is fitted with an arm, *k*, the outer end of which extends through an aperture in the upper side of the magazine-tube, so that when the plunger is pushed downward the end of this arm *k* passes behind the first cartridge and in front of the second.

On the bar *f* is attached a piece, *l*, that projects through an aperture in the under side of

the magazine-tube, for the purpose of catching the flange of the forward cartridge. In order to accommodate this mechanism in the space below the magazine-tube the finger of the sear *m* is curved, as shown in Fig. 5, beneath the tube, and the spring *i*, by which the bar *f* is raised, is apertured, as shown in Fig. 6, to allow the projection of the trigger through it.

In order to fill the magazine the breech-block is opened and the cartridges passed in the tube through the breech-cavity. After filling, the forward cartridge is held by the piece *l* on the bar *f* taking in front of the flange of the cartridge.

When the magazine is to be used, supposing the breech to be closed, the successive operations are as follows: The hammer is raised to half-cock, and, the tang *d* acting upon the finger *b'*, the arm *a'* is carried forward and the latch turned to release the breech-block. This allows the spring *c* to act, the breech-block is thrown upward and forward, the empty shell is drawn out by the extractor, and the rear end of the shell coming against the curved flange *g* the shell is carried upward and out of the cavity. The gun has now been brought to the condition for loading by the one movement of the hammer, and, if desired, a cartridge may be inserted by hand, and the breech then closed. If it is to be loaded from the magazine, the plunger *D* is to be pressed down by hand, and the plunger carrying the bar *f* downward, the piece *l* is released from the forward cartridge, while at the same time the arm *k* of the plunger is carried down into position for arresting the second cartridge by its flange. The first cartridge being released by the downward movement of the plunger, it is thrown forward through the breech-cavity and into the barrel of the gun. The next cartridge following it will be arrested by the arm *k*, and the plunger *D* being then allowed to rise, the cartridge is caught by the piece *l* when released by the arm *k*. The breech is then to be closed, and the gun is ready for firing.

It will be seen that there are but three motions required for opening the breech, loading the gun, and closing the breech again. If desired, the plunger *D* may be placed so that a projection upon the hammer shall come in contact with the plunger when the hammer is drawn back, and the plunger thus pressed downward for releasing the cartridge from the magazine. In that case the single motion of cocking the hammer will serve to open the breech and load the gun. For ordinary purposes the construction shown is preferable, as

it allows the magazine to be used or not at the will of the operator.

It will be seen that this construction does not in any way interfere with the operations of loading the gun by hand; but the gun is supplied with a magazine in which the cartridges can be held in reserve for use in an emergency. The mechanism is simple, and but slight alterations are required to adapt the mechanism in this manner to the ordinary "Springfield" breech-loader.

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

1. The combination, with a hammer provided with a tang on its base, of a hinged and spring-actuated breech-block and a locking-latch carrying a pivoted finger for engagement with the tang of the hammer, substantially as and for the purpose set forth.

2. The combination, with a hammer provided with a tang on its base, of a hinged and spring-actuated breech-block, a locking-latch provided with a pivoted finger for engagement with the tang of the hammer, and a spring-pressed flange projecting into the breech-cavity, substantially as and for the purpose set forth.

3. The combination, with the stock *B* and the hinged breech-block *A*, of the rod *b*, having one end hinged to said breech-block and its other end working in a mortise of the stock, and the spring *c*, surrounding said rod, substantially as and for the purpose set forth.

4. The combination, with the hinged and spring-actuated breech-block *A* and the hammer *C*, provided with the tang *d*, of the latch *a*, the curved arm *a'*, the pivoted finger *b'*, and the spring *c''*, substantially as and for the purpose set forth.

5. The combination, with the hinged and spring-actuated breech-block *A*, of the pivoted and spring-pressed bar *f*, provided with the curved flange *g* on its free end projecting into the breech-cavity, substantially as and for the purpose set forth.

6. The combination, with the apertured magazine-tube *e*, of plunger *D*, provided with the arm *k*, projecting into the upper part of the tube, the pivoted bar passing through a slot in the plunger and provided with the stop *l*, projecting into the lower part of the magazine-tube, and the spring *i*, substantially as and for the purpose set forth.

A. SHERIDAN JONES.

Witnesses:

GEO. D. WALKER,
C. SEDGWICK.