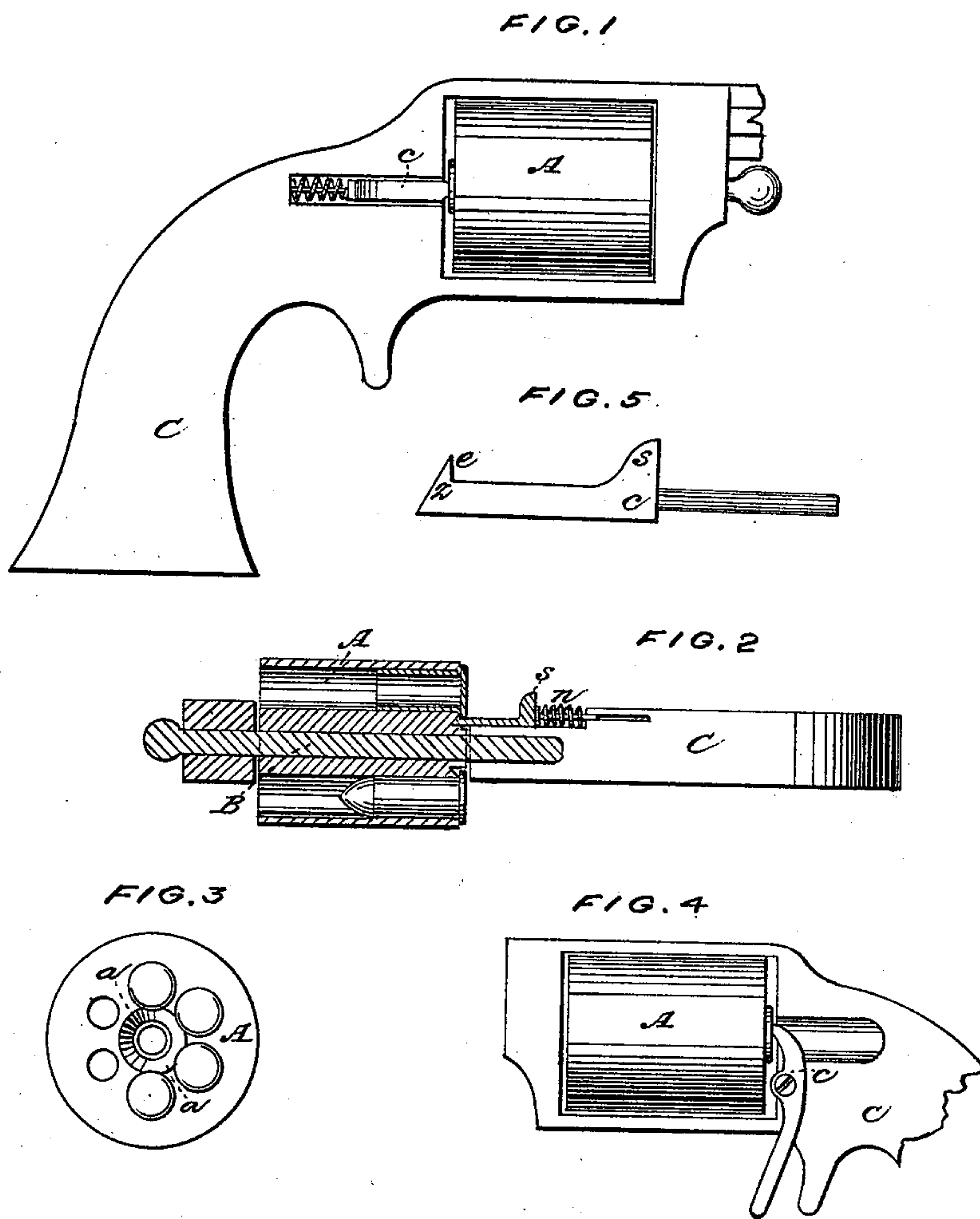


J. M. MARLIN.
Cartridge-Shell Extractor.

No. 99,690.

Patented Feb. 8. 1870.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN M. MARLIN, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN CARTRIDGE-SHELL EXTRACTORS.

Specification forming part of Letters Patent No. 99,690, dated February 3, 1870.

To all whom it may concern:

Be it known that I, JOHN M. MARLIN, of Hartford, in the county of Hartford and State of Connecticut, have invented a new and valuable Improvement in Means for Extracting Cartridge-Shells from Revolvers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side view of my invention. Fig. 2 is a horizontal section of same. Figs. 3, 4, and 5 are details.

My invention relates to means for extracting the metallic cases of cartridges from the chambers of revolvers; and it consists, mainly, in forming a groove in the base of the breech, concentric with the spindle, and arranging a catch in such a manner that its flanged head will sink into the groove behind the rim of the cartridge-case, when it may be easily and efficiently extracted.

The letter A of the drawings designates the chambered breech revolving about the spindle B, attached to the stock C. The base of the breech is formed with a circular channel or groove, *a*, with section of curved or angular form. The extractor is lettered *e*, and may be pivoted to the stock, as in Fig. 4, or arranged to slide in a longitudinal channel or groove in the stock, as in Fig. 2. A coiled spring, *n*, is arranged in rear of the projection or stud *s* on the stem of the extractor, whereby the flanged

head *z* thereof is kept in the circular channel *a*, with its rear face, *e*, flush with the surface of the base of the breech. By revolving the breech the flanges of the cartridge-cases pass in succession over the face *e* of the extractor, and are easily withdrawn by means thereof. In the case of the pivoted extractor the case is thrown out by pressing the lower arm of the lever forward. When the slide is used the stud or projection *s* serves as a handle, whereby the extractor is pulled directly backward.

By the use of my invention this slow and awkward method of taking off the breech from the spindle and then pushing out the cases is dispensed with.

I prefer a groove of the form shown in section on the drawings, in which the deepest portion thereof is farthest from the chambers and gradually slopes toward the same, as thereby no appreciable weakness is caused in the walls thereof.

What I claim as my invention, and desire to secure by Letters Patent, is—

The revolving chambered breech A, provided with the circular channel *a*, herein described, in combination with the flanged head *z* of a cartridge-extractor, constructed and arranged to operate as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN M. MARLIN.

Witnesses:

ALFRED G. HERRINGTON,
N. P. H. WILLIS, Jr.