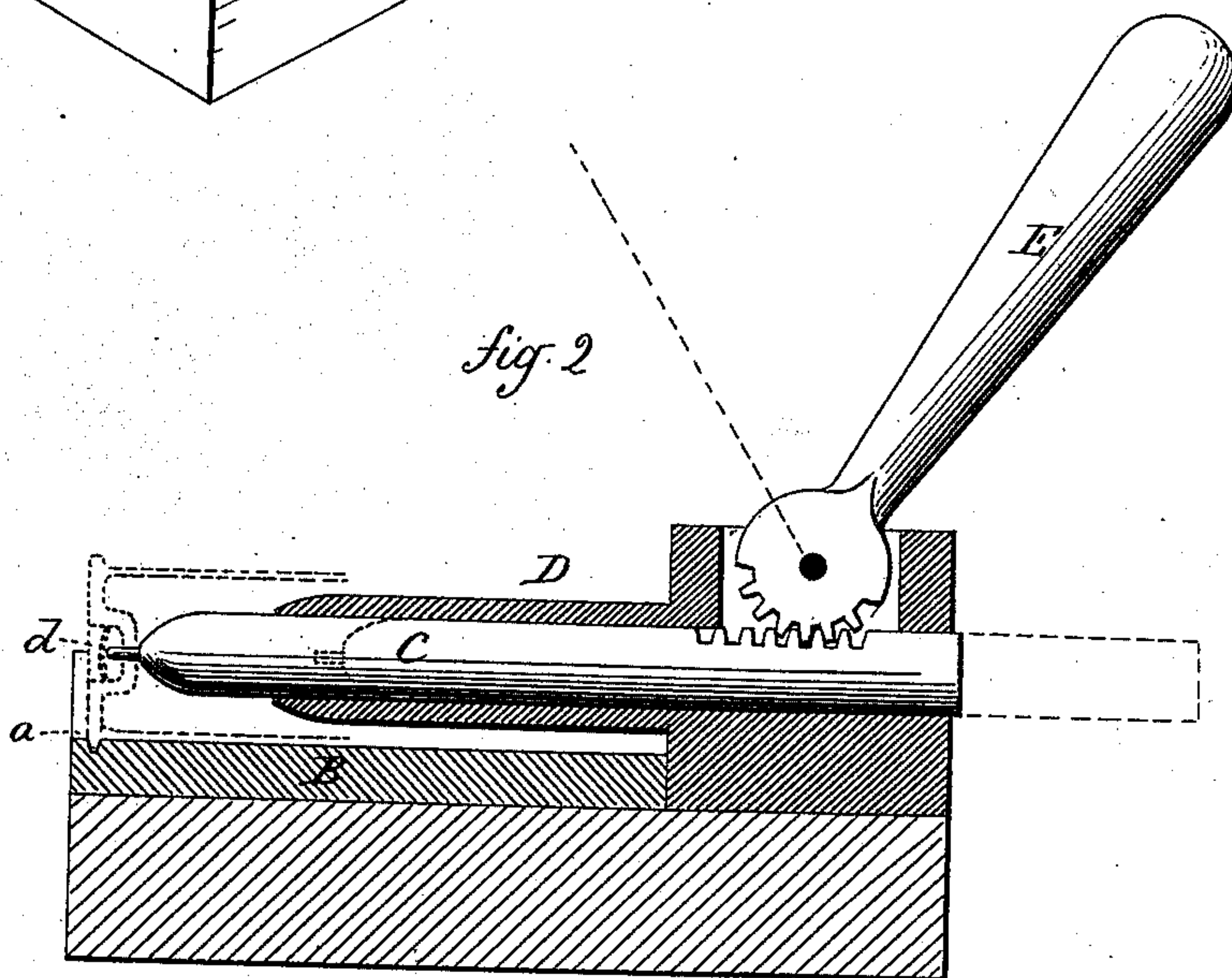
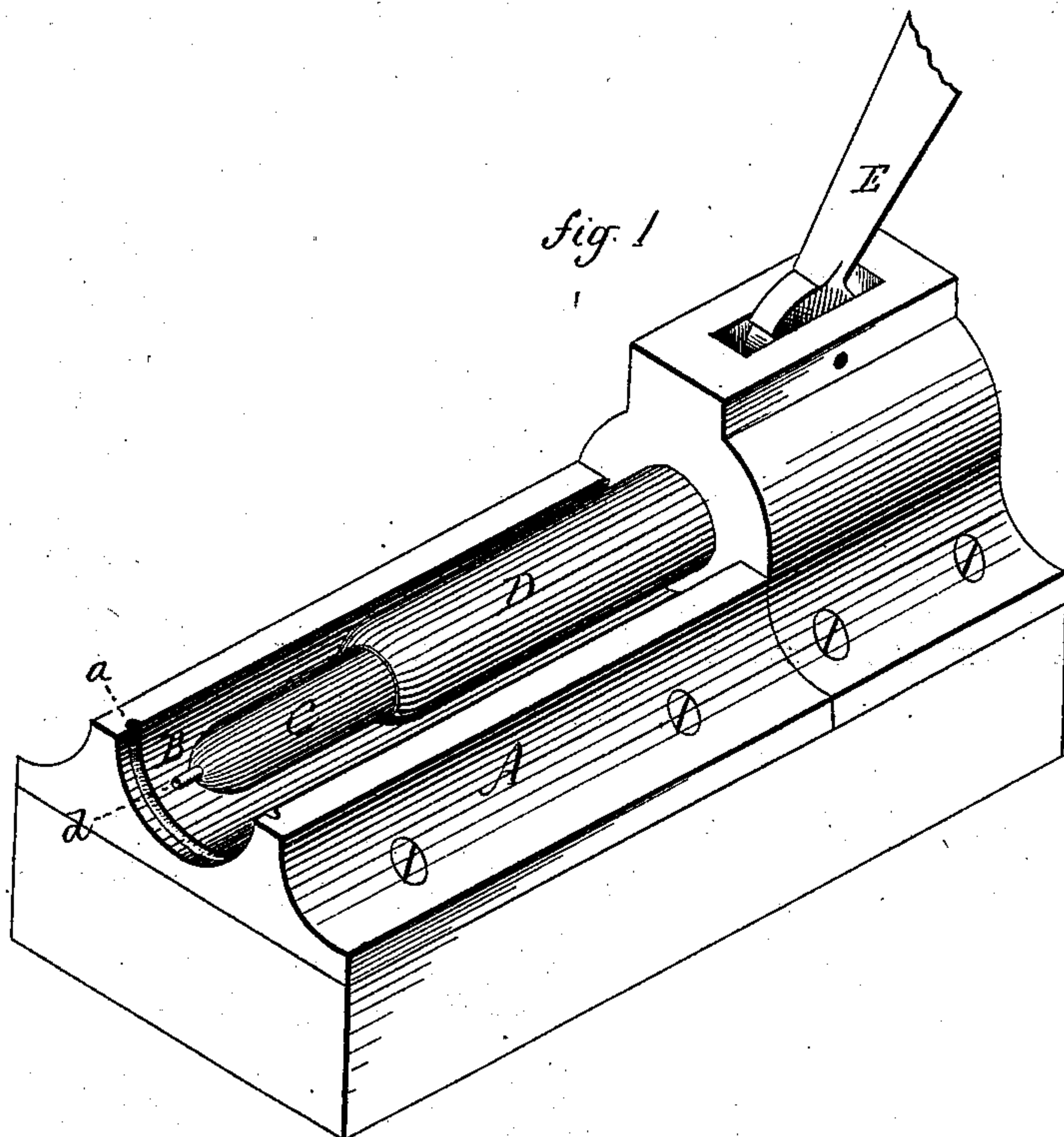


S. E. KEIGHLEY.  
Implement for Uncapping Cartridge-Shells.

No. 212,558.

Patented Feb. 25, 1879.



Witnesses.

*J. V. Shumway*  
*W. H. Ketchum*

Sebastian E. Keighley  
By atty. *John E. Earle* Inventor.

# UNITED STATES PATENT OFFICE.

SEBASTIAN E. KEIGHLEY, OF MIDDLE HADDAM, CONNECTICUT.

## IMPROVEMENT IN IMPLEMENTS FOR UNCAPPING CARTRIDGE-SHELLS.

Specification forming part of Letters Patent No. **212,558**, dated February 25, 1879; application filed December 16, 1878.

*To all whom it may concern:*

Be it known that I, SEBASTIAN E. KEIGHLEY, of Middle Haddam, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Devices for Removing Cartridge-Primers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, perspective view; Fig. 2, longitudinal section.

This invention relates to a device for removing primers from metallic cartridges; and it consists in the construction, as hereinafter described, and more particularly recited in the claim.

A is the bed, having in its surface a semi-cylindrical recess, B, corresponding to the cartridge-cylinder, and near its outer end is a groove, *a*, corresponding to the flange of the head of the cartridge. Axially with this semi-cylindrical recess is a spindle, C, supported in a bearing, D, and so as to be moved longitudinally therein by means of a toothed segmental lever, E, working in a corresponding rack on the said spindle. In the forward end of this spindle is a pin, *d*, of less diameter than the central perforation through the head of the cartridge.

The cartridge-shell from which the primer

is to be removed is placed in the recess B with its flange resting in the groove *a*, the spindle C having been drawn back, as indicated in broken lines, Fig. 2. Then the spindle is forced forward by turning the lever. The pin *d* enters the perforation in the cartridge-shell, strikes the primer, and forces it therefrom, leaving the shell ready for recharging the primer.

This device affords a simple and effective means of removing the primer, and may also be used for resetting the primer by simply reversing the shell, the flange resting in the groove *a* as a support.

I am aware that devices have been made for mechanically removing primers by the arrangement of a spindle with a point to eject the primer, and therefore do not broadly claim such a device; but

What I do claim is—

The combination of the base, constructed with a semi-cylindrical recess, B, to receive the cartridge-shell, and annular groove *d*, near the outer end of said recess, to receive the flange of and support the cartridge longitudinally, and the longitudinally-movable spindle C, provided at its front with the point *d* and with a device for moving said spindle, substantially as described.

S. E. KEIGHLEY.

Witnesses:

WM. G. KEIGHLEY,  
JOHN CARRIER.