

G. McCool.
SHEARS FOR COLD IRON.

No. 583,578.

Patented June 1, 1897.

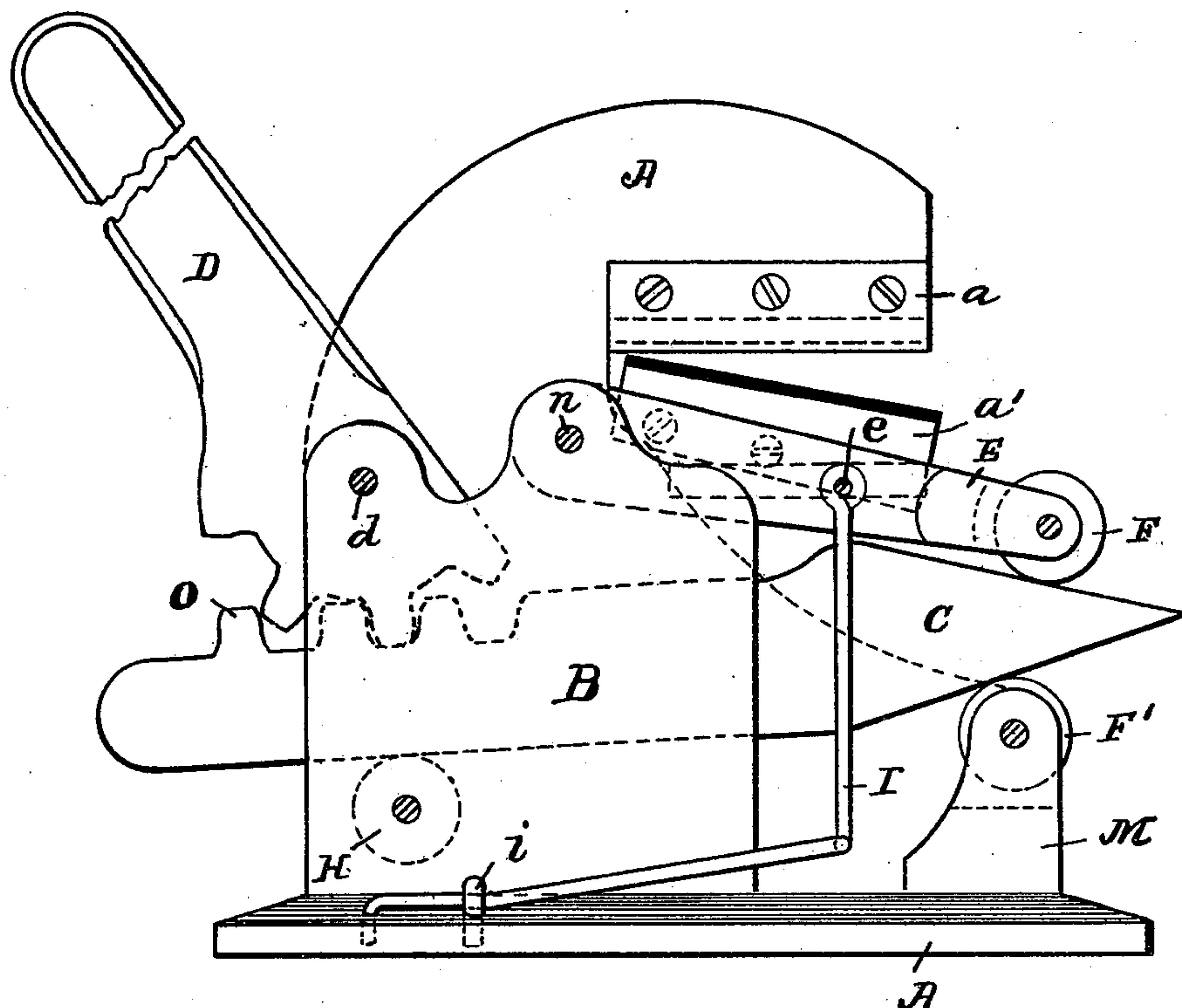


Fig. 1.

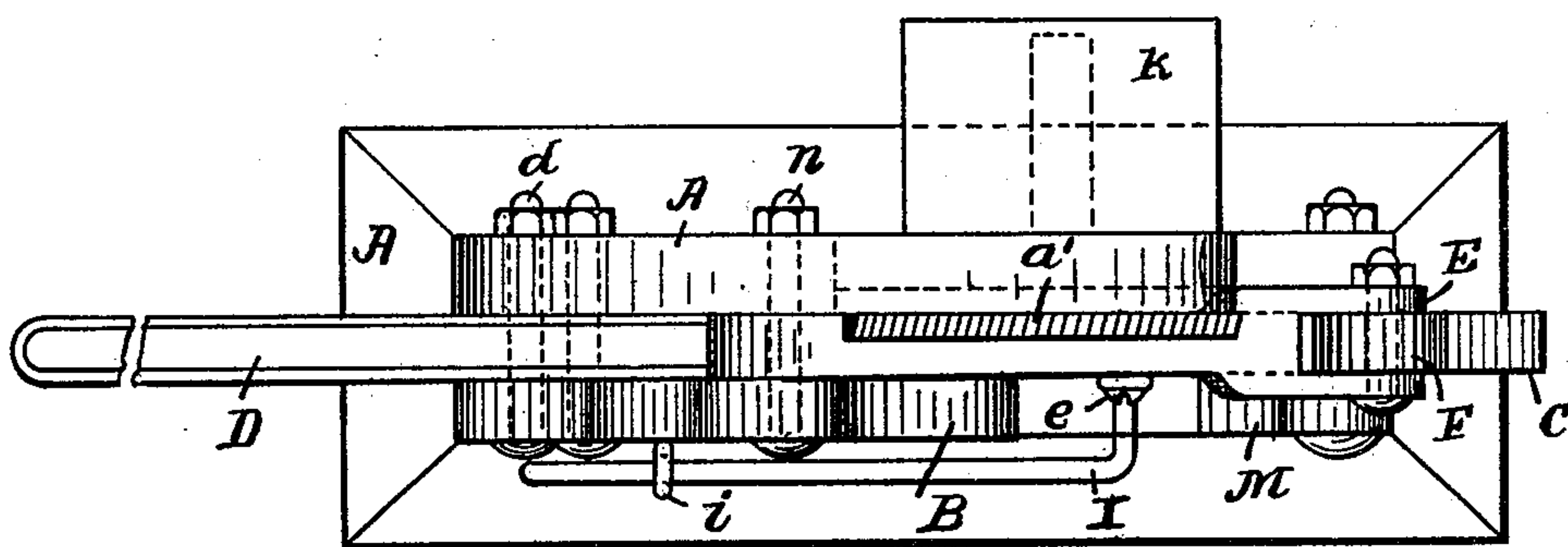


Fig. 2.

Witnesses:
Chas Marien
D. D. Deane

Inventor:
George McCool.
By Thurman & Silvis
Attorneys

(No Model.)

2 Sheets—Sheet 2.

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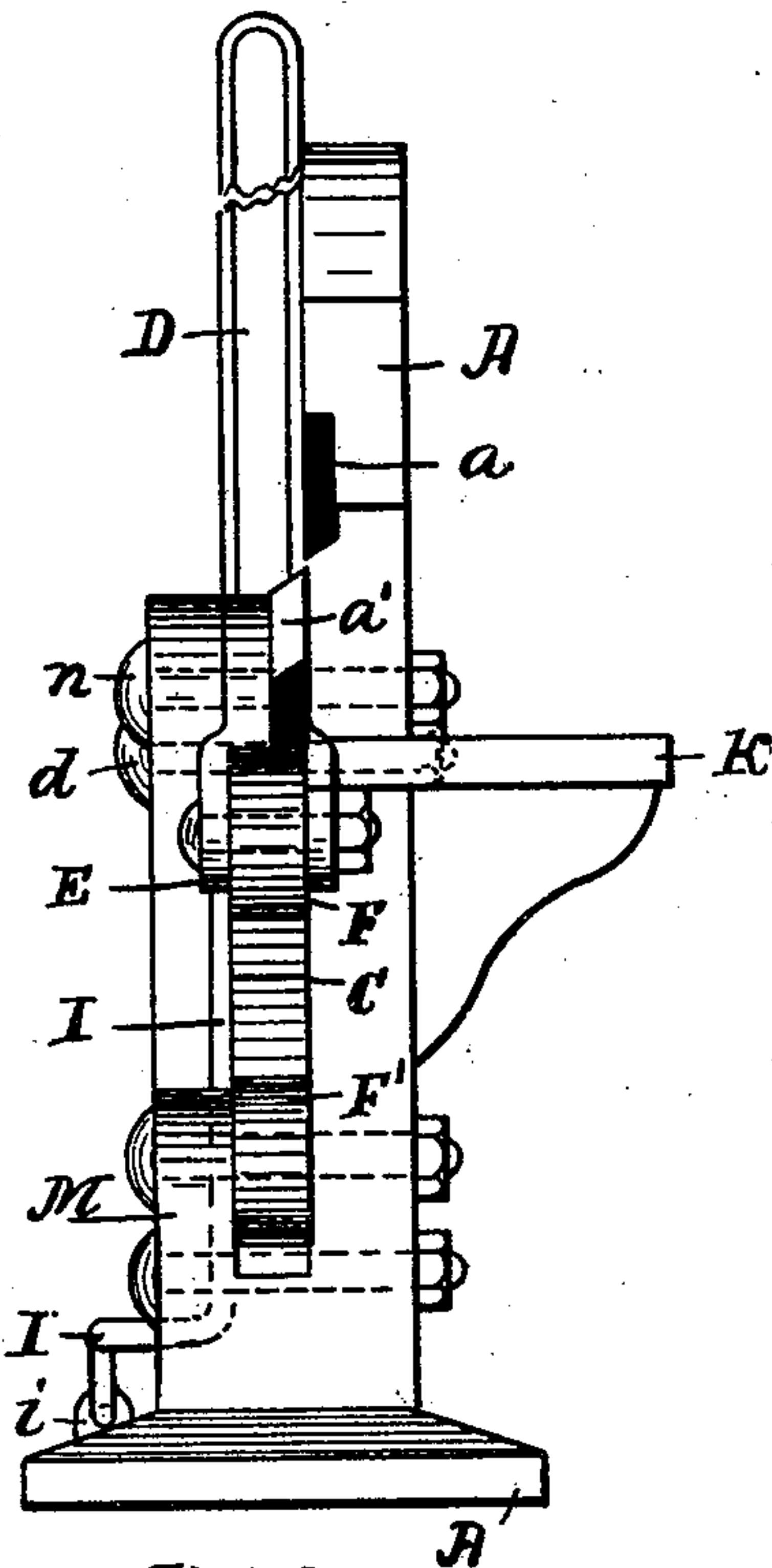


Fig. 3

Witnesses:

Chas. Marien.

D. D. Deane.

Inventor:

By George McCool
Thurman & Silvers
Attorneys,

UNITED STATES PATENT OFFICE.

GEORGE MCCOOL, OF LAINGSBURG, MICHIGAN, ASSIGNOR TO C. DELOS SHARP, OF SAME PLACE.

SHEARS FOR COLD IRON.

SPECIFICATION forming part of Letters Patent No. 583,578, dated June 1, 1897.

Application filed February 20, 1897. Serial No. 624,318. (No model.)

To all whom it may concern:

Be it known that I, GEORGE MCCOOL, a citizen of the United States, residing at Laingsburg, in the county of Shiawassee and State of Michigan, have invented certain new and useful Improvements in Shears for Cold Iron; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in shears for cold iron in which one of the blades is stationary and the other is pressed upward by means of a wedge pressing against the blade by means of rollers and the operating-lever working in a rack on the wedge.

The object of my invention is to provide an effective and cheap shears for general use in workshops which is simple in construction and comparatively inexpensive to manufacture and consists of few parts.

Referring to the drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a plan view. Fig. 3 is an end view.

Referring to the drawings, A designates the frame of the machine, provided with a base and table K, which are integral with each other. Secured to the frame A at its upper end is the cutting-blade *a*, which is stationary. E is an arm pivoted to the main frame at *n*, to which is secured the cutting-blade *a'*. At the extreme end of the arm E is the roller F.

M is a bracket preferably made integral with the frame A and is provided with the friction-roller F'.

C is a wedge provided with the rack-teeth O. The wedge C travels between the main portion of the frame and the standard B, which is integral with the main frame.

H is a friction-roller at the rear end of the frame A, on which the wedge travels.

D is the operating-lever, pivoted at *d*. At the lower end of this lever are teeth and meshes in the rack O of the wedge C.

I is a spring attached to the cutting-arm E at *e*, and is secured to the frame by means of the bracket *i*. This spring is intended to hold the knife or blades apart when the shears are not in use.

In operation the iron is placed between the knives and the lever D is pulled downward, which advances the wedge C, thereby forcing the arm E, to which the knife-blade *a'* is attached, upward, thereby cutting the iron.

It is obvious to a skilled mechanic that shears constructed as shown are effective and will cut heavy iron without much exertion on the part of the operator.

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

1. In shears for cutting cold iron consisting of a frame provided with a base, said frame having a stationary blade rigidly secured thereto, an arm pivoted to said frame at one end and the opposite end provided with a friction-roller, a cutting-blade secured to said arm, friction-rollers journaled on said frame, a slidable wedge provided with a rack, a lever pivoted to said frame and having teeth meshing in said wedge to advance said wedge when said lever is pulled downward thereby raising the arm of the cutting-knife to close said knives; a spring connected to the frame and the cutting-arm to pull said arm downward substantially as shown and described.

2. The herein-described shears for cutting cold iron consisting of a main frame provided with two friction-rollers near its base and a stationary cutting-blade near the top an arm pivoted to said frame near its center, a cutting-blade secured to said arm, a friction-roller attached to said arm at its outer end a wedge provided with a rack on rear end and traveling on said friction-rollers; said wedge travels between the recess of said frame, a lever pivoted between said recess provided with teeth on its lower end and meshing in the rack on the wedge, said lever when pulled downward to advance said wedge thereby causing said arm provided with cutting-blade to move upward causing the blades to close, a tension-spring attached to said arm and frame to pull said arm downward substantially as shown and described.

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

GEORGE MCCOOL.

Witnesses:

H. H. PULVER,
K. S. CROOK.