(No Model.)

D. JONES.

NAIL PLATE FEEDER.

No. 356,646. Patented Jan. 25, 1887.

Fig. 1.

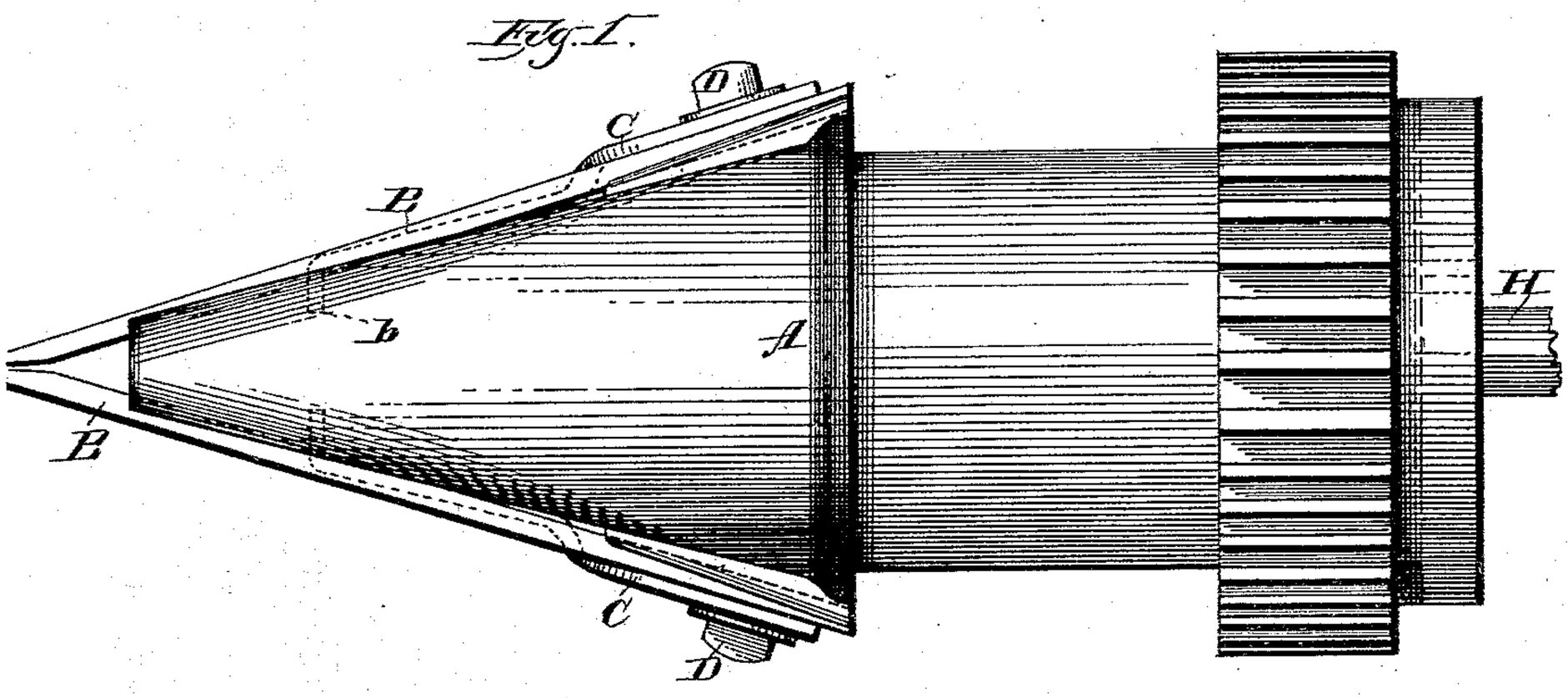


Fig. 2.

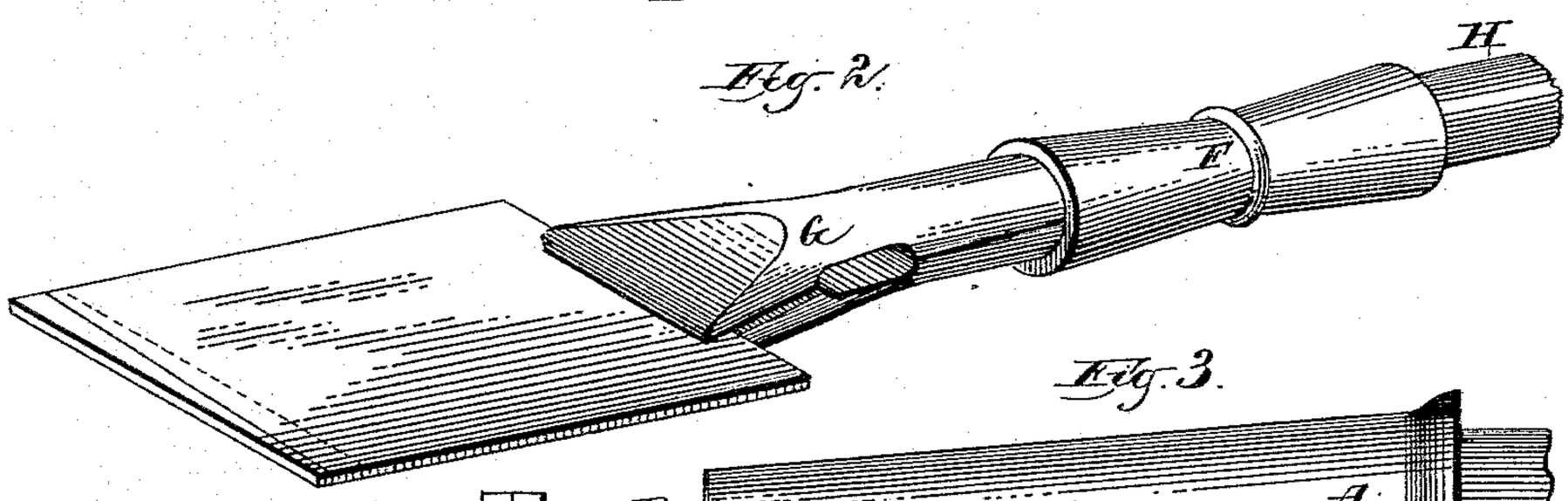


Fig. 3.

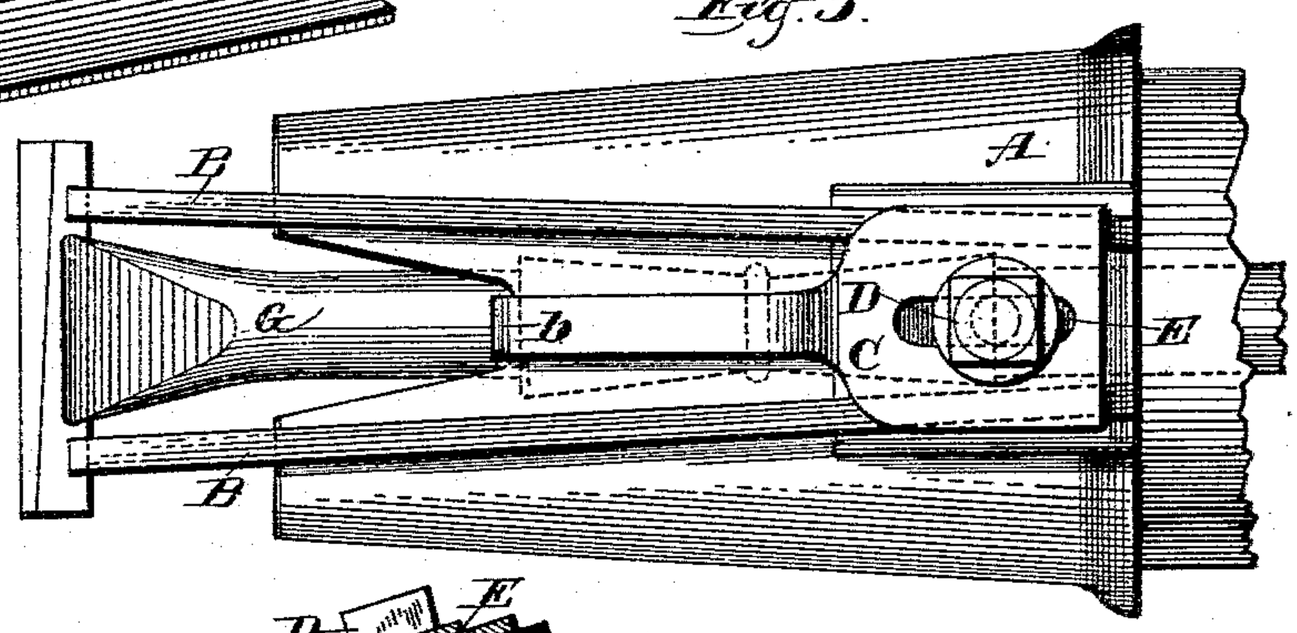
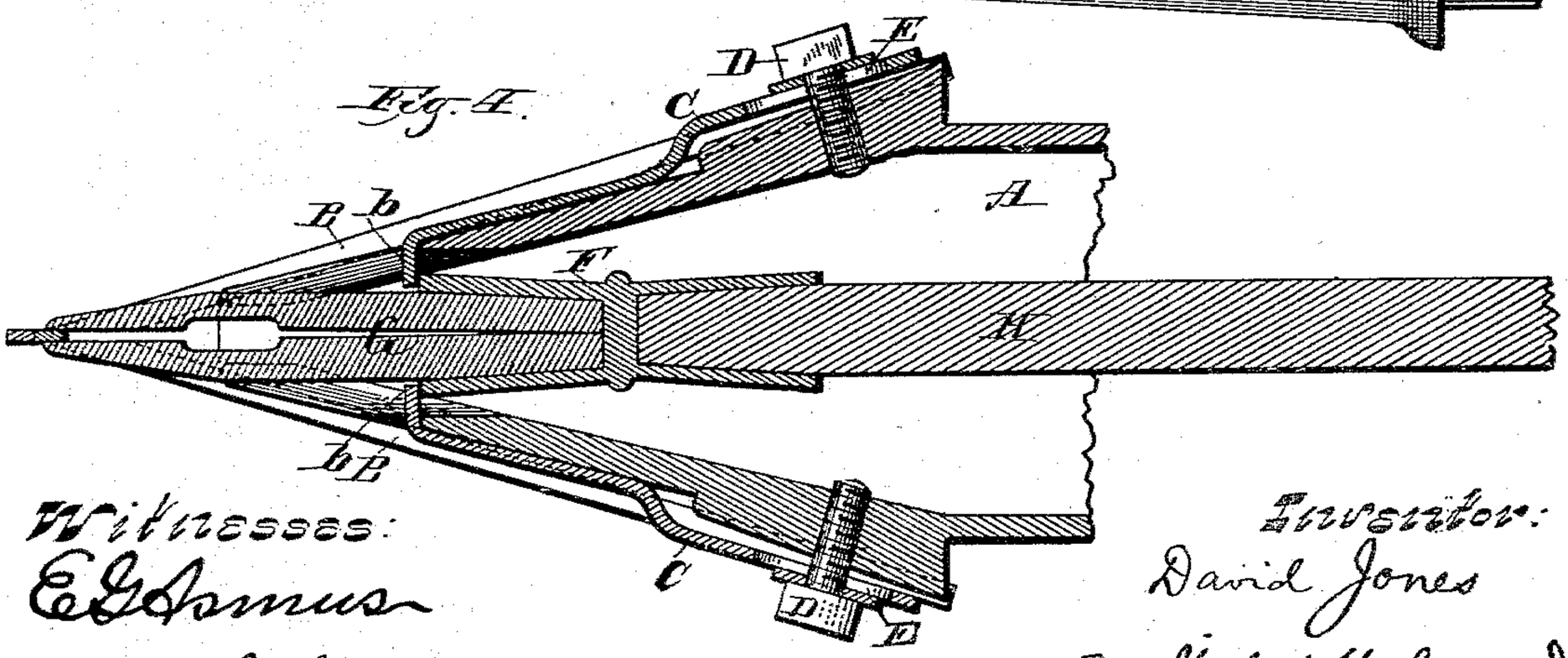


Fig. 4.



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UNITED STATES PATENT OFFICE.

DAVID JONES, OF BAY VIEW, WISCONSIN, ASSIGNOR OF ONE-HALF TO DENNIS D. McCOY, OF SAME PLACE.

NAIL-PLATE FEEDER.

SPECIFICATION forming part of Letters Patent No. 356,646, dated January 25, 1887.

Application filed November 15, 1886. Serial No. 218,894. (No model.)

To all whom it may concern:

Be it known that I, DAVID JONES, of Bay View, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Machines for Making Nails; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to machines for making nails, being more particularly designed for that class of such machines that are generally known as "self-feeders;" and it consists in an automatic stop for the nippers, whereby the latter are permitted to work closer to the cutting apparatus without danger of becoming caught therein, as will be hereinafter described with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents, in side elevation, the feed-barrel of a nail-cutting machine having my invention applied thereto; Fig. 2, a perspective view of a nipper engaging a portion of a nail-plate; Fig. 3, a plan view of the barrel and my automatic nipper-stop; and Fig. 4, a longitudinal vertical section of the barrel, nipper, and stop in their operative relation.

Referring by letter to the drawings, A represents the barrel of a self-feed nail-cutting machine, said barrel being of the ordinary construction and provided with the usual nail-plate guide-fingers, B. To the nose of the barrel A, I bolt the rear or enlarged ends of shovel-shaped plates C, said ends of these plates taking the places of the ordinary washers employed in connection with the bolts D to retain the guide-fingers B in their relation to said barrel. In order that the plates C may be longitudinally adjusted on the nose of the barrel, I make the bolt-aperture of each of said plates in the form of a slot, E. The front ends, *b*, of the shovel-shaped plates C are bent at approximate right angles to come inside the nose of the barrel A, as best illustrated in Fig. 4. The bent ends *b* of the plates C project far enough inside the nose of the barrel A to come in the path of the sleeve F or ring that serves to hold the nipper-blades G, and also as a socket for the rod H, the latter being connected to an actuating mechanism (not shown) in any suitable manner.

By the above-described construction and arrangement of the plates C, I provide a stop to limit the movement of the nipper toward the cutting apparatus, (not shown,) thereby enabling me to cut close to this nipper without danger of the latter becoming caught in said cutting apparatus, as is frequently the case in the machine as ordinarily constructed, and which results in great damage, that requires considerable time and skill to repair.

In addition to the above-described advantage, I am enabled by this close feeding to the cutting mechanism to utilize all of a nail-plate but the small portion thereof necessary to the grip of the nipper, and hence there is very little scrap, this in itself being of considerable value.

As above described, the plate or plates that form my automatic stop are made adjustable, and hence can be readily set to come against the sleeve or ring that secures the nipper-blades in position, regardless of the distance said sleeve or ring may encroach on these blades.

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

1. The feed-barrel of a nail-cutting machine, in combination with a stop arranged to come in the path of the sleeve or ring that holds the nipper-blades, substantially as and for the purpose set forth.

2. The feed-barrel of a nail-cutting machine, in combination with an adjustable stop arranged to come in the path of the sleeve or ring that holds the nipper-blades, substantially as and for the purpose set forth.

3. The feed-barrel of a nail-cutting machine, and guide-fingers arranged thereon, in combination with plates having their rear ends bolted to said barrel to retain the fingers in operative position, and their forward ends bent to come in the path of the sleeve or ring that holds the nipper-blades, substantially as and for the purpose set forth.

4. The feed-barrel of a nail-cutting machine, and guide-fingers arranged thereon, in combi-

nation with shovel-shaped plates, each having its rear or enlarged end provided with a longitudinal slot and bolted to said barrel to retain the fingers in operative position, and its forward end bent to come in the path of the sleeve or ring that holds the nipper-blades, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

DAVID JONES.

Witnesses:
H. G. UNDERWOOD,
N. E. OLIPHANT.