

T. HARRIS & P DUNN.

Hammer Roll Devices for Forming Horse-Shoe Nails.

No. 134,664.

Patented Jan. 7, 1873.

Fig. 1.

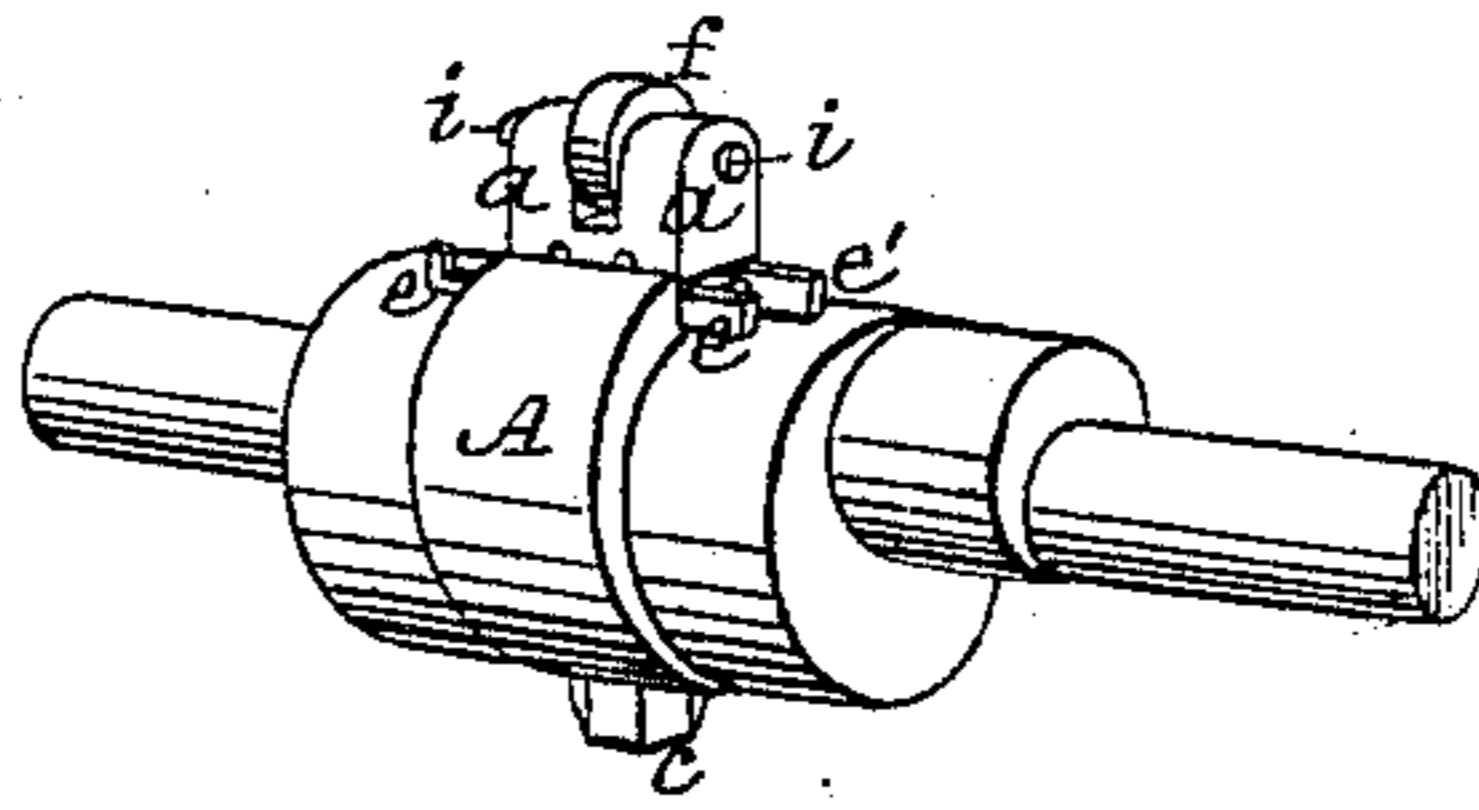


Fig. 2.

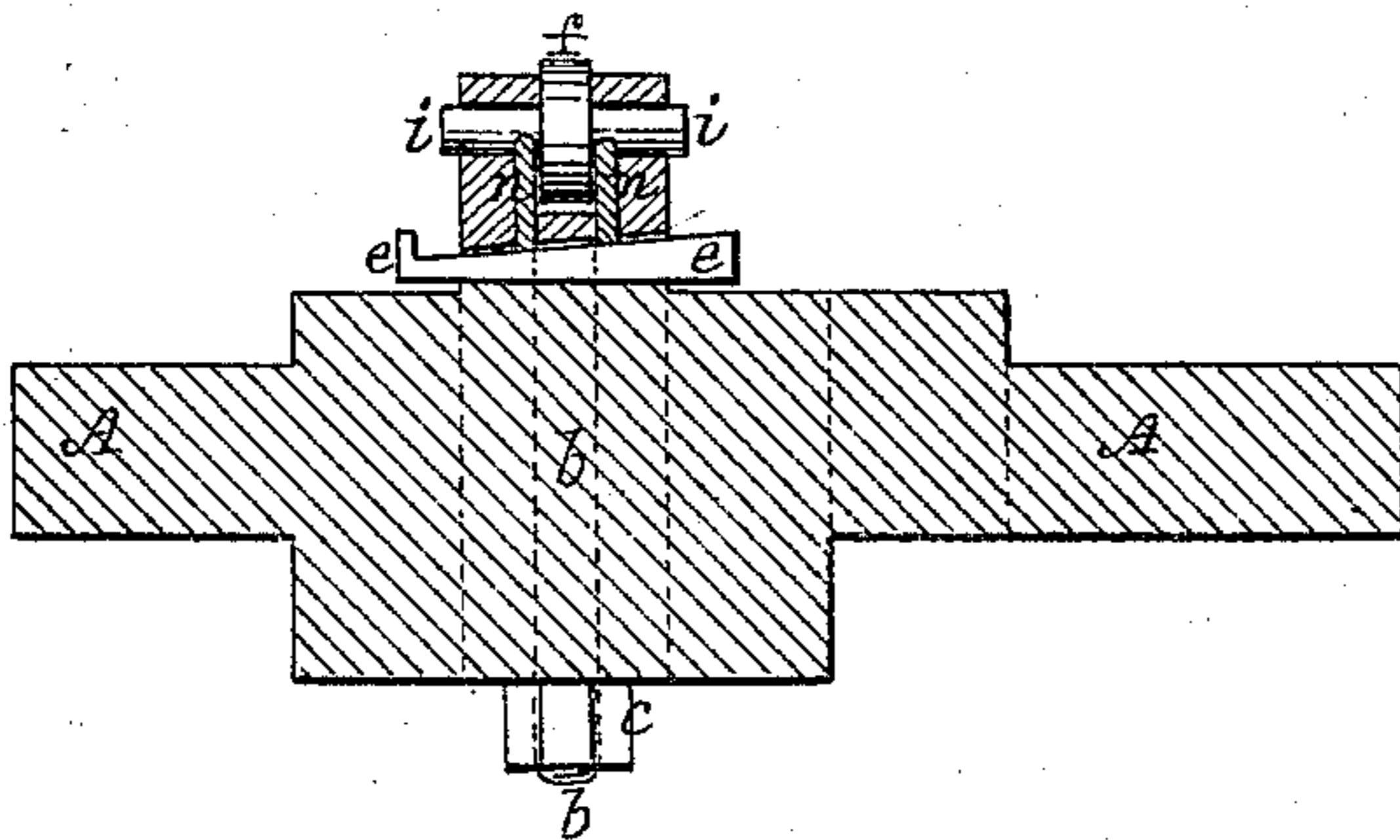
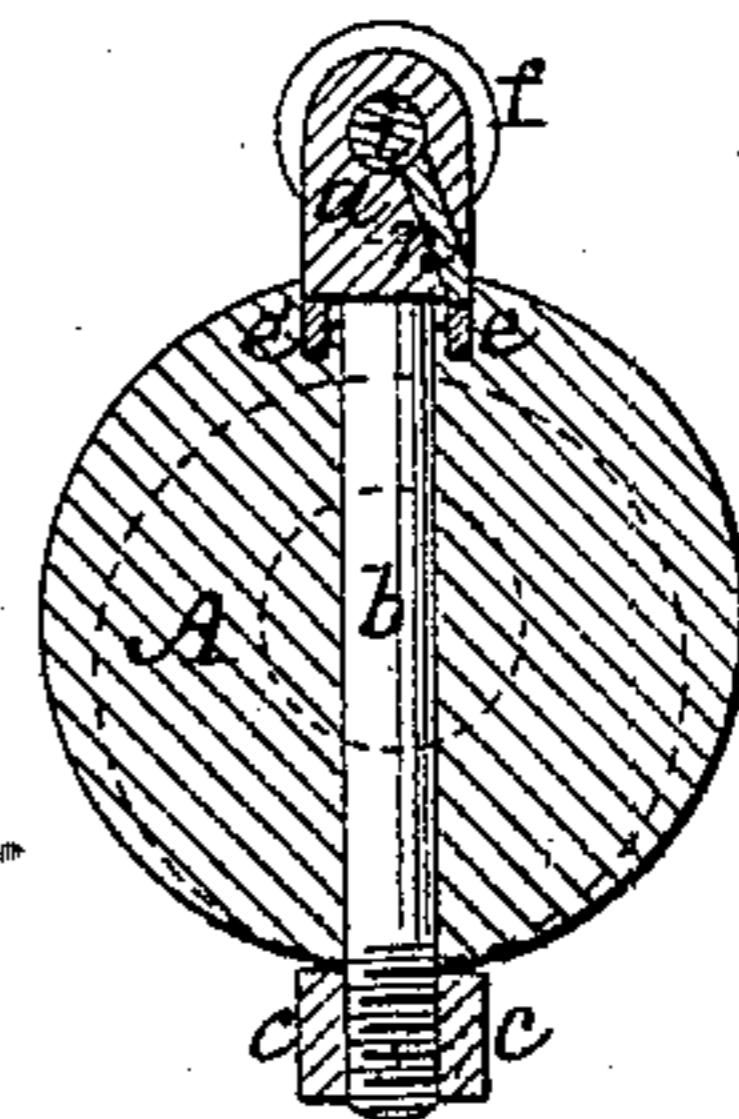


Fig. 3.



Witnesses.

John Williams
Edmund Masson.

Inventors.

Thomas Harris and Patrick Dunn.
By their atty. A. B. Stoughton.

UNITED STATES PATENT OFFICE.

THOMAS HARRIS AND PATRICK DUNN, OF COTÉ ST. PAUL, CANADA.

IMPROVEMENT IN HAMMER-ROLL DEVICES FOR FORMING HORSESHOE NAILS.

Specification forming part of Letters Patent No. 134,664, dated January 7, 1873.

To all whom it may concern:

Be it known that we, THOMAS HARRIS and PATRICK DUNN, of Côté St. Paul, province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Roll-Stocks for Horse-Nail Machines; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents in perspective the roll-stock and shaft to which it is attached, and with which it revolves. Fig. 2 represents on an enlarged scale a longitudinal section through the roll-stock and shaft, and Fig. 3 represents on a similarly enlarged scale a transverse section through the roll-stock and shaft.

Similar letters of reference where they occur in the separate figures denote like parts in the drawing.

Our invention relates, first, to a means of adjusting the roll or rolls in horse-nail machines to suit the thickness of the nails to be made; and second, to a means of fixing the roll-pin or pins in place, and preventing the roll from wearing the sides of the stock.

To enable others skilled in the art to make and use our invention we will proceed to describe the same with reference to the drawing.

The roll-stock *a* has a shank, *b*, which passes through the shaft *A*, and is held to said shaft by a screw-nut, *c*, as seen in the drawing. The shoulders *d d* of the roll-stock rest upon wedge-shaped keys *e e'*, so that said stock and

its roll *f* may be adjusted by first loosening the nut *c*, then moving the wedges or keys *e e'*, and finally by tightening up the nut to hold the stock and roll at its adjusted position.

The shaft or axle pin *i* on which the roll *f* runs is firmly held in the stock *a*, so that it cannot work out, by means of steel pins *n n*, the inner ends of which rest upon one of the keys *e*, and the outer ends thereof bearing against the shaft or pin *i*, and thus not only holding it firmly in proper position, but preventing it from working out of the stock. The pins *n n* at their outer ends may also form a portion of the walls of the recess in which the roll *f* runs, and being of hardened steel prevent the roll from wearing the stock laterally.

Having thus fully described our invention, what we claim is—

1. In combination with the stock *a* and its roll *f*, shank *b*, and nut *c*, the wedge-shaped keys *e e'* for adjusting said roll to the thickness of the nails to be made, substantially as described.

2. The combination of the wedge or key *e*, the pins *n n*, and the shaft or roll-pin *i*, as and for the purpose described and represented.

THOMAS HARRIS.
PATRICK DUNN.

Witnesses:

W. P. MEGUIRE,
H. B. WRIGHT.