

J. A. & G. H. McGEER.

Machines for Making Horseshoe Calk Blanks.

No. 156,433.

Patented Nov. 3, 1874.

Fig. 1.

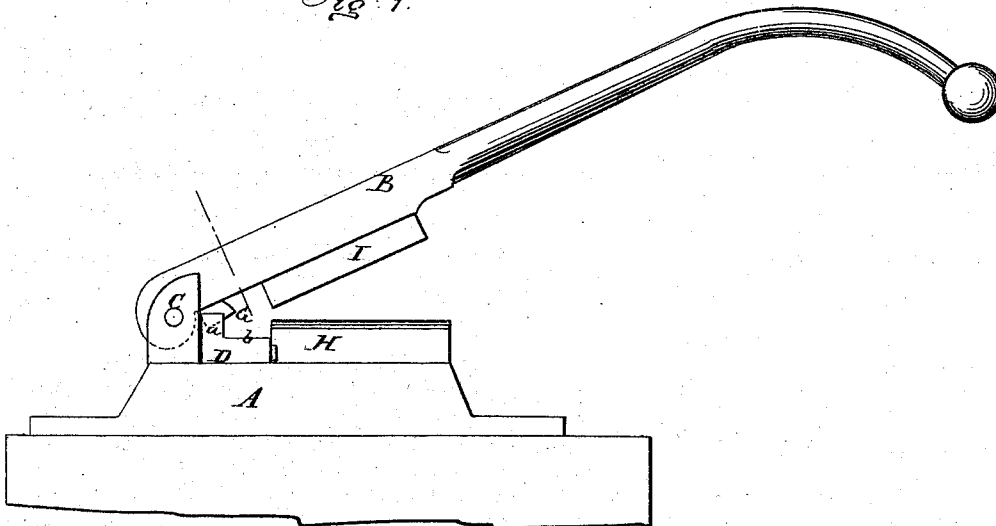


Fig. 2.

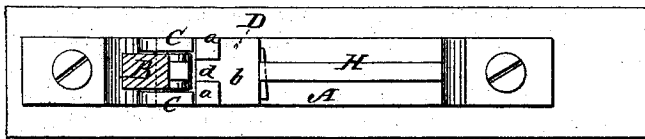


Fig. 3.

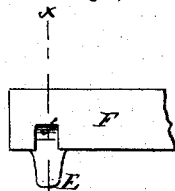
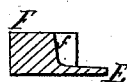


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN A. McGEER AND GEORGE H. McGEER, OF MORAVIA, NEW YORK.

IMPROVEMENT IN MACHINES FOR MAKING HORSESHOE-CALK BLANKS.

Specification forming part of Letters Patent No. **156,433**, dated November 3, 1874; application filed December 1, 1873.

To all whom it may concern:

Be it known that we, JOHN A. McGEER and GEORGE H. McGEER, of Moravia, Cayuga county and State of New York, have invented a new and Improved Machine for Making Horseshoe-Calk Blanks, of which the following is a specification:

Our invention consists of a punch on a hand-lever, and a stationary die, arranged to press out the little spurs required on the end of the calk which is attached to the shoe for entering the punch-hole in the shoe, and making a permanent connection; and on the same lever and bed, and in close proximity to the aforesaid punch and die, are cutters for cutting off the blanks after the spurs are formed, the said cutters being so arranged with the punch and die in order to save considerable time and labor in transferring the bar from one machine to another, and to economize in expense by utilizing one bed and lever for the two devices.

Figure 1 is a side elevation of our improved machine. Fig. 2 is a plan of the bed and section of the lever, the latter being taken on the line *xx* of Fig. 1. Fig. 3 is a plan of a portion of a blank for a toe-calk, and Fig. 4 is a cross-section of Fig. 3 on the line *xx*.

A represents the bed-piece of cast or wrought iron, to which a strong lever, B, is pivoted at one end on standards C. D represents the stationary die for making the spurs E of the calk-blanks F. It consists of a steel block placed immediately in front of the standards C, with portions *a*, each about as long as the required length of the spurs, made as much higher than the face *b*, on which the bar of which the blank is made rests, as the thickness of the bar, which portions are separated by a space or slot, *d*, as wide as the required width of the spur, and as deep as the height of the

said portions *a*, said space or slot being at right angles to the bar when lying on the die-face *b*. Directly over this slot is a punch-bit, G, fastened in the under side of the lever. It extends downward nearly to the bottom of the slot when the lever is down, and it projects beyond the elevation *a* over the die-face *b* a short distance. Directly in front of the die D is a stationary shear or cutter blade, H, whose end next to the die D rises enough above the face *b* to prevent the bar from sliding forward when under the action of the punch G, and above the cutter H is the movable cutter I on the lever B.

The steel bar from which the calk-blanks are to be made is first placed on the die-face *b*, with the end as far beyond the die as it is required to have the spur E from it. The lever is then brought down, and a portion of the metal of the bar is forced out, forming the notch *f* and the spur E. The lever is then raised, the bar shifted along a suitable distance, and the lever is again brought down, and another spur formed. The bar is then presented to the cutters, and the blank cut off.

Having thus described our invention, we claim as new, and desire to secure by Letters Patent—

1. The spur-forming die D, punch G, bed A, and lever B, combined and arranged substantially as specified.

2. The spur-forming die D, punch G, cutters H and I, bed A, and lever B, combined and arranged substantially as specified.

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Witnesses:

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