

## Horseshoe Nail Machine.

No. 52,081.

Patented Jan'y 16, 1866.

Fig. 2

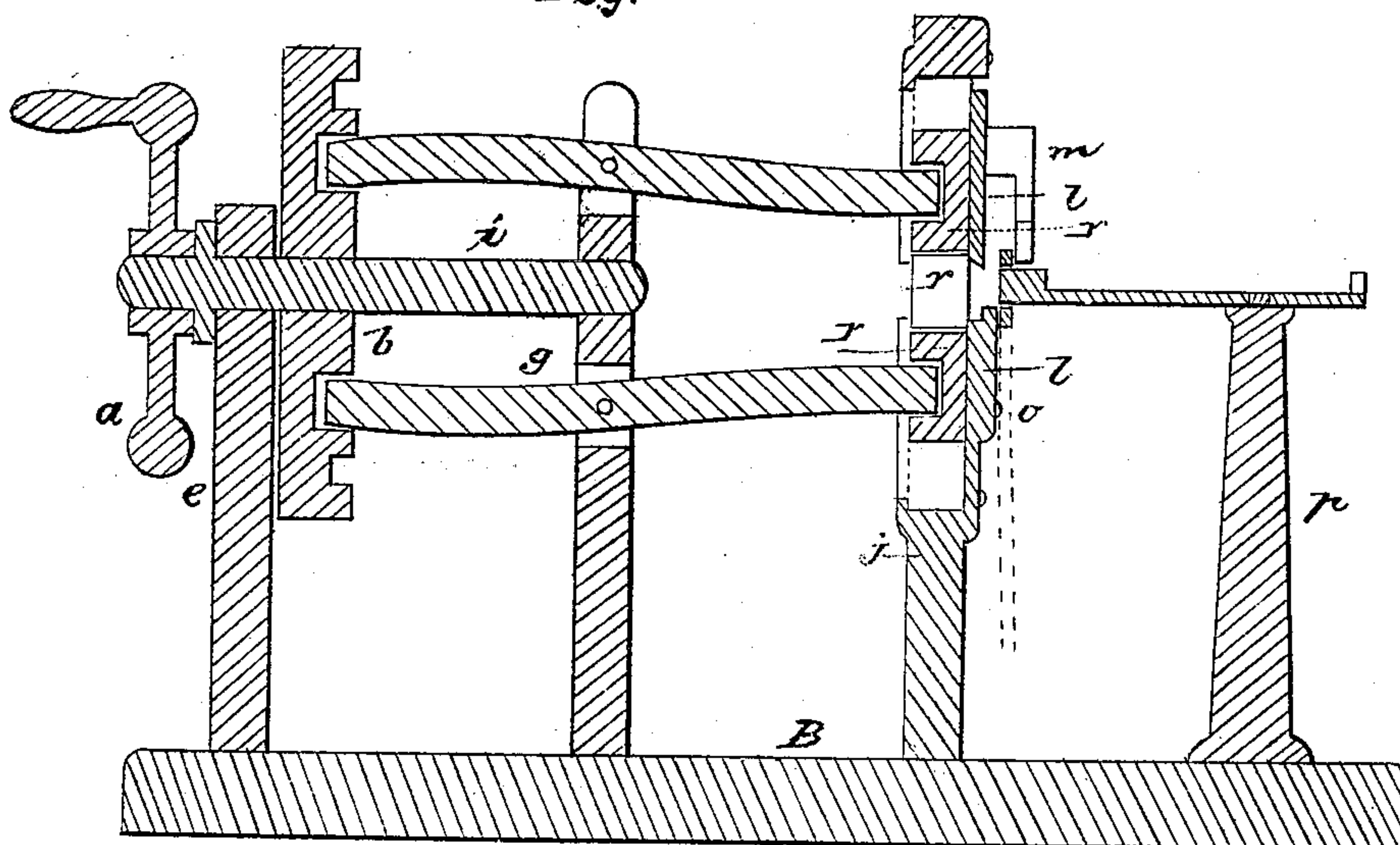
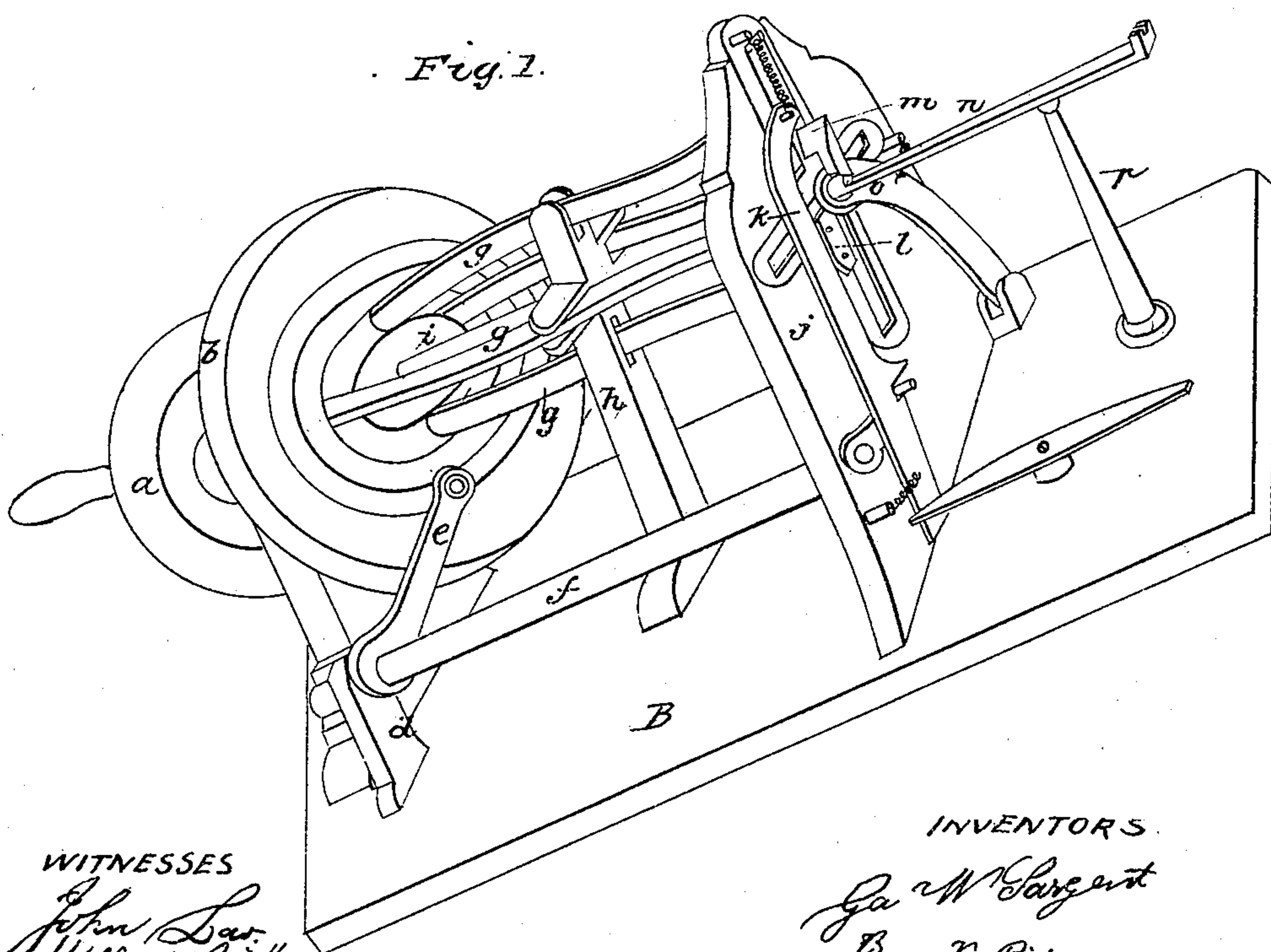


Fig. 1.



**WITNESSES**

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G. W. SARGENT AND B. P. RIDER, OF CHELSEA, MASSACHUSETTS.

## HORSESHOE-NAIL MACHINE.

Specification forming part of Letters Patent No. 52,081, dated January 16, 1866.

*To all whom it may concern:*

Be it known that we, GEORGE W. SARGENT and BENJAMIN P. RIDER, both of Chelsea, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Machine for Making Horse-Nails; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a perspective view; Fig. 2, a longitudinal elevation.

The following refers to the accompanying drawings, Fig. 1.

*a* is the balance-wheel; *b*, cam-wheel; *c*, standard holding one end of the main shaft; *d*, standard holding the rocker-shaft; *e*, lever running from rocker-shaft to groove in cam *b*; *f*, rocker-shaft; *g g g g*, levers for working the hammers *r r r*, as shown in Fig. 2; *h*, standard in which levers *g g g g* rock; *i*, main shaft running through cam *b*; *j*, main standard, in which hammers *r r r* vibrate, (see Fig. 2;) *k*, lever attached to the cutter *ll*; *ll*, cutter; *m*,

cam working on the mouth-piece, carrying it under the cutter; *n*, mouth-piece to hold the nail-rod; *o*, lever which guides the mouth-piece to the cutter *ll*; *p*, standard holding the mouth-piece in position.

The operation of our machine consists in the hammers *r r r*, as shown in Fig. 2, worked by levers *g g g g* and vibrated by cam *b*, as shown in Fig. 1.

Having as clearly as possible described the construction and operation of our machine for making horse-nails, what we claim as our invention, and desire to secure by Letters Patent, is, viz:

The combination of four loose hammers running in grooves, moved by levers working in mortises in said hammers, said levers working on loose pins and vibrated by a cam so formed as to give to each hammer two distinct blows to each revolution of said cam.

GEO. W. SARGENT.  
BENJA. P. RIDER.

Witnesses:

JOHN LOW,  
WILLARD SMITH.