

P. H. BARSTOW.
Shoe-Nailing Machines.

No. 158,566.

Patented Jan. 12, 1875.

Fig 1.

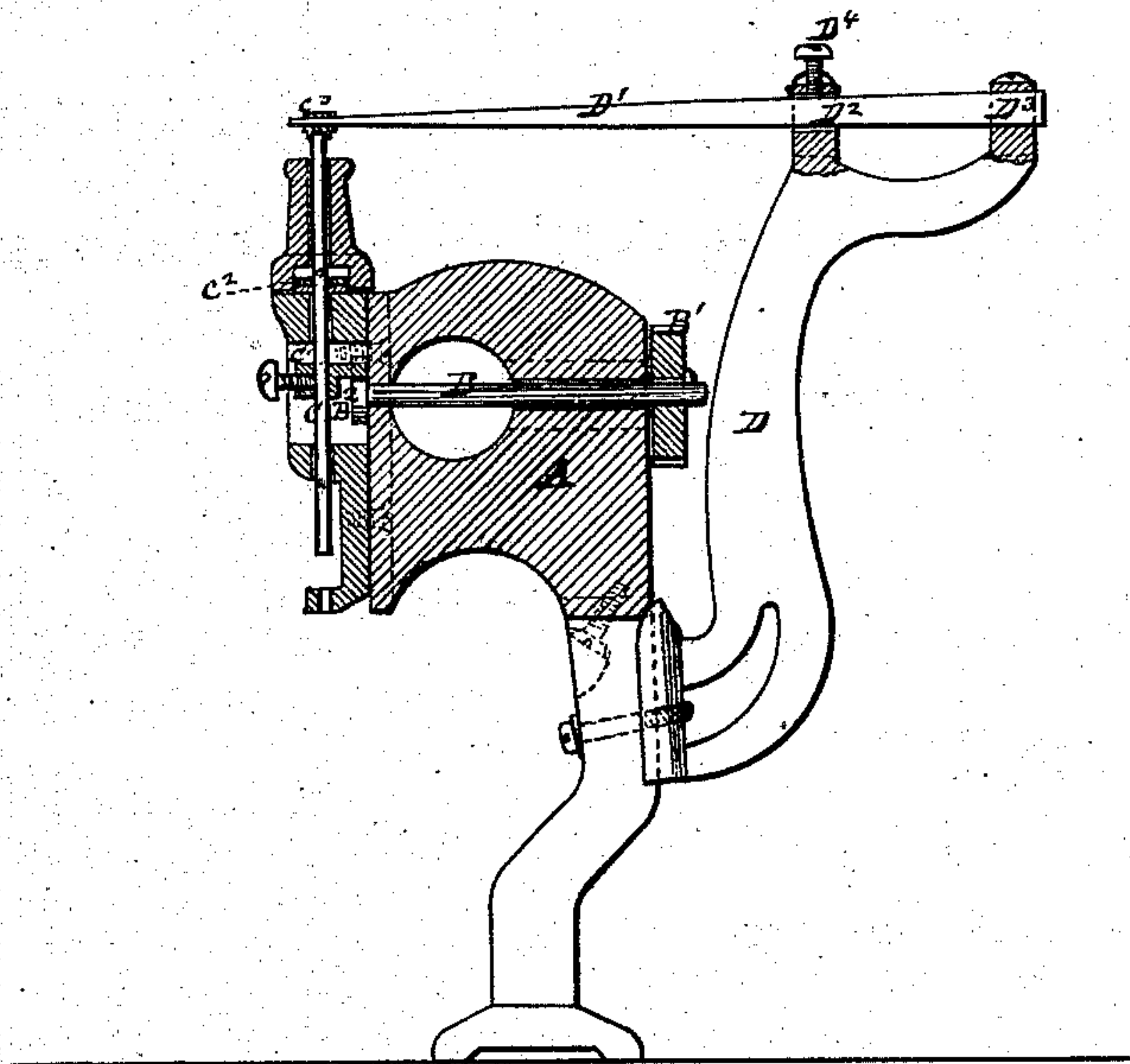
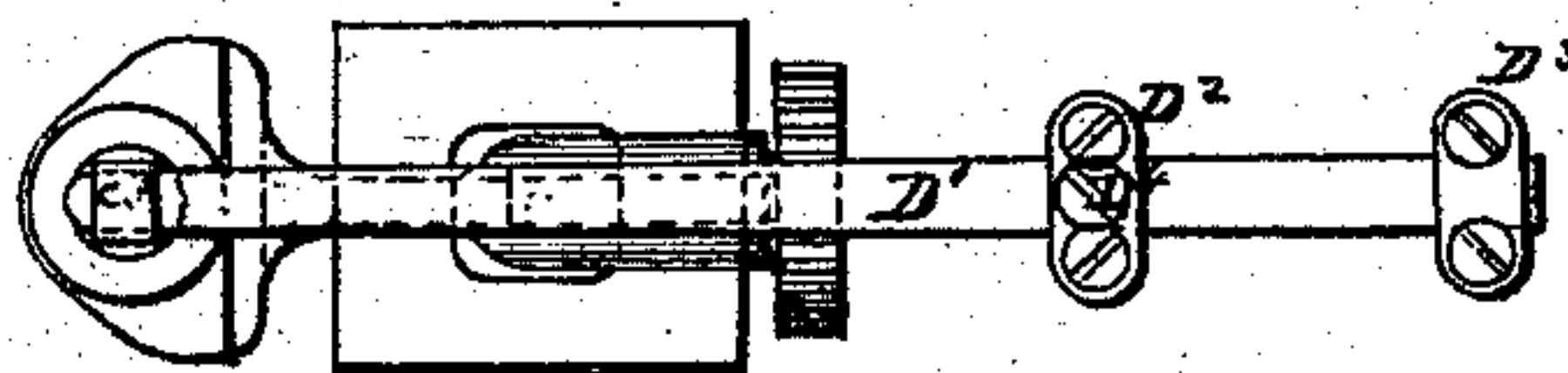


Fig. 2.



Witnesses.

Henry G. Powell.
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UNITED STATES PATENT OFFICE.

PERCIVAL H. BARSTOW, OF TRENTON, NEW JERSEY.

IMPROVEMENT IN SHOE-NAILING MACHINES.

Specification forming part of Letters Patent No. **158,566**, dated January 12, 1875; application filed September 5, 1874.

To all whom it may concern:

Be it known that I, PERCIVAL H. BARSTOW, of Trenton, in the county of Mercer and State of New Jersey, have invented an Improvement in Shoe Nailing or Pegging Machines, of which the following is a specification:

My invention relates to the combination of a spring, formed out of wood having the proper elasticity, with the hammer-spindle of a machine intended for driving nails or pegs in shoes, and in this only. Its object is to avoid the crystallization due to the metallic springs heretofore used in this class of machines which has resulted in such enormous breakage and loss of time as to render the continuance of said metallic springs practically objectionable.

Figure 1 is a side elevation of a machine embodying my improved spring, the working parts in which are shown in central vertical longitudinal section. Fig. 2 is a plan of the same.

A, Fig. 1, is the frame of the machine, in which journals are formed to receive the operating cam-shaft B, on one end of which is properly secured the driving-pulley B¹, and on the other end the cam B². C is the hammer-spindle, on which are secured an adjustable shoulder, C¹, against the under surface of which the cam B² impinges on raising the hammer-spindle C, and a collar, C², which ar-

rests the spindle C at the proper point in its descent to prevent injury to the shoe. The upper end of the spindle C is received by the socket-band C³, which is properly fitted to the spring D¹. The spring D¹ is secured in recesses D² D³, and provided with a screw, D⁴, for the proper adjustment of the spring blow. The bracket D, containing recesses D² D³, is secured to the main frame by bolts, or it may be cast as part of the frame A.

The operation of this machine is substantially as follows: Motion is imparted to the operating-shaft B by means of the driving-pulley B¹. As this shaft revolves the cam B², impinging against the under surface of the shoulder C¹, raises the spindle C, which, in turn, presses up the spring D¹, the reaction of which causes the spindle to descend and drive the nail or peg in the shoe. At each revolution this operation is repeated.

What is here claimed as new, and desired to be secured by Letters Patent, is—

The horizontal wood spring D¹, supported in recesses upon bracket D, in combination with adjusting set-screw D⁴ and hammer-spindle C, all substantially as and for the purpose described.

PERCIVAL H. BARSTOW.

Witnesses:

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