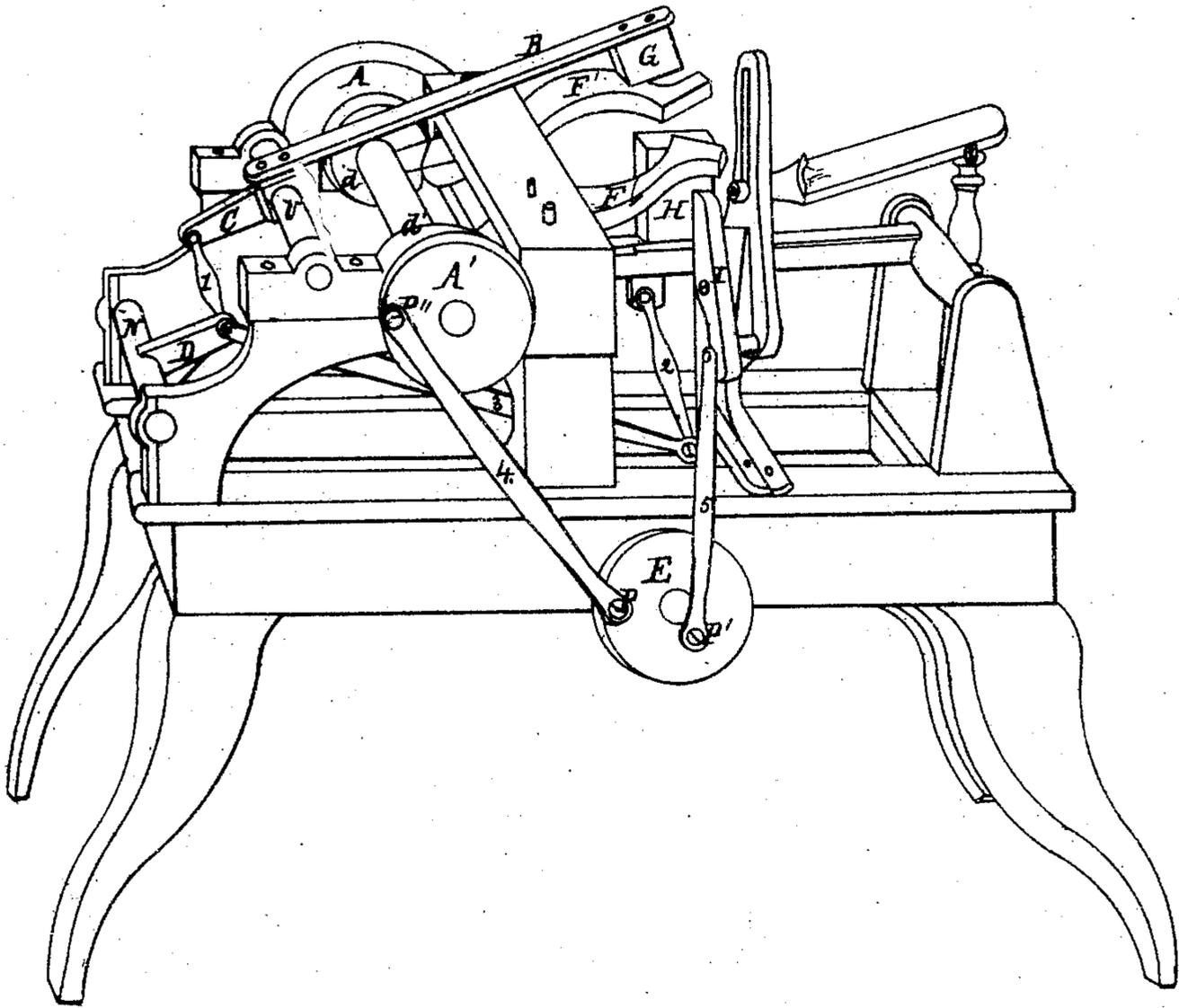


G. W. Sargent.
Nail-Machine.

N^o 76104

Patented Mar. 31, 1868.

Fig. 1.



Witnesses:
James P. McLean.
J. R. H. Priest.

Inventor.
George W. Sargent.

United States Patent Office.

GEORGE W. SARGENT, OF NEW YORK, N. Y.

Letters Patent No. 76,104, dated March 31, 1868.

IMPROVEMENT IN NAIL-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE W. SARGENT, of the city, county, and State of New York, have invented certain novel and useful Improvements in Machinery for Making Nails for Horse-Shoes; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which are lettered to correspond with and form a part of the specification.

To enable the public to understand the nature of my invention, and those skilled in the mechanic arts to construct and use the same, I will describe it, as follows, to wit:

Figure 1 is a perspective drawing of my nail-machine.

A is the driving-wheel or power. B is a wooden bar or lever, provided with a metallic hammer, G, and is secured to the roller U and arm C by means of bolts, or other suitable devices for such purposes. D is an arm similar to C, and is secured to the transverse roller N, of which it forms a part. E is a wheel, provided with two pins, P P', placed eccentric to its centre. F F' are horizontal hammers. H is an adjustable anvil. I is a feed-bar. 1 2 3 4 5, connecting-rods. *d d'* are two cams, secured to the main shaft, to operate the horizontal hammers F F' and anvil H by means of my new mode of connecting the working parts of my machine, and operating the same by the rods 1 2 3, which connect the short levers or arms C and D and the adjustable bed of the anvil H; also the rods 4 and 5, which are operated upon the eccentric-pins P P' P'' by the wheels A' and E, to give the desired motion to the cut-off bar I.

In order to reduce the weight of the vertical hammer G, I employ a wooden bar or shank, B, thereby relieving the machine of a part of its burden. Yet I do not confine myself to the use of wood alone for such purposes, but use that material which may be thought best.

By the above arrangement I am enabled to produce two available raps or blows with each hammer to one revolution of the main shaft or wheel A', and thus accomplish more work within the same space of time than by any other known arrangement of well-known devices operated by the same or a similar power. Therefore

What I claim as novel and useful, and what I wish to secure by Letters Patent of the United States, is—

The levers C and D, connecting-rods 1 2 3 4 5, wheels A' and E, with eccentric-pins P P' P'', arranged to operate the wooden shank and vertical hammer G, adjustable anvil H, horizontal hammers F F', and cut-off bar I, substantially in the manner and for the purpose set forth, and shown in the drawings.

In testimony whereof, I hereunto subscribe my name in the presence of two witnesses.

GEORGE W. SARGENT.

Witnesses:

JAMES P. McLEAN,
J. R. H. PRIEST.