

(No Model.)

G. McKAY.
Nailing Machine.

No. 229,442.

Patented June 29, 1880.

Fig:1.

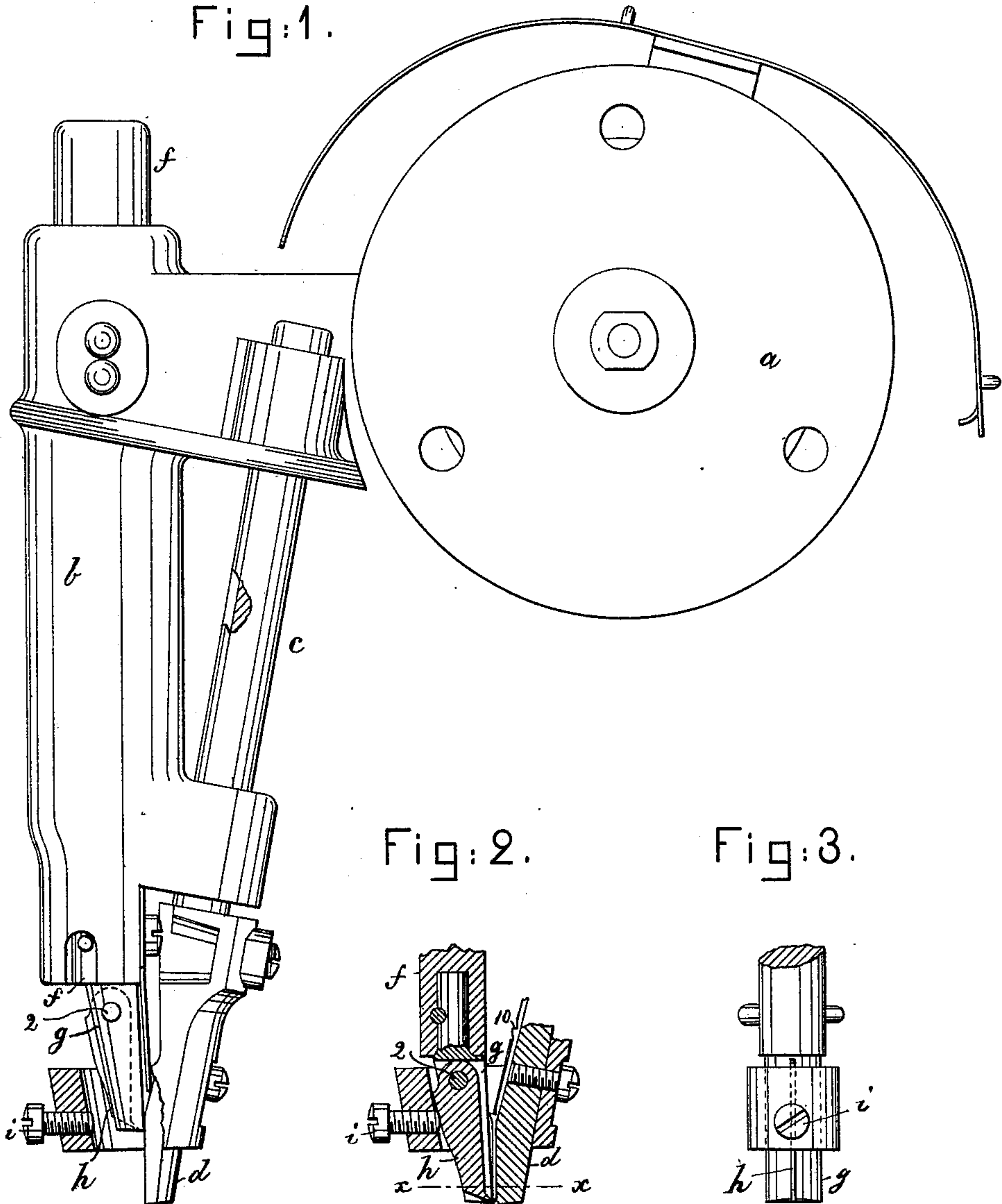


Fig:2.

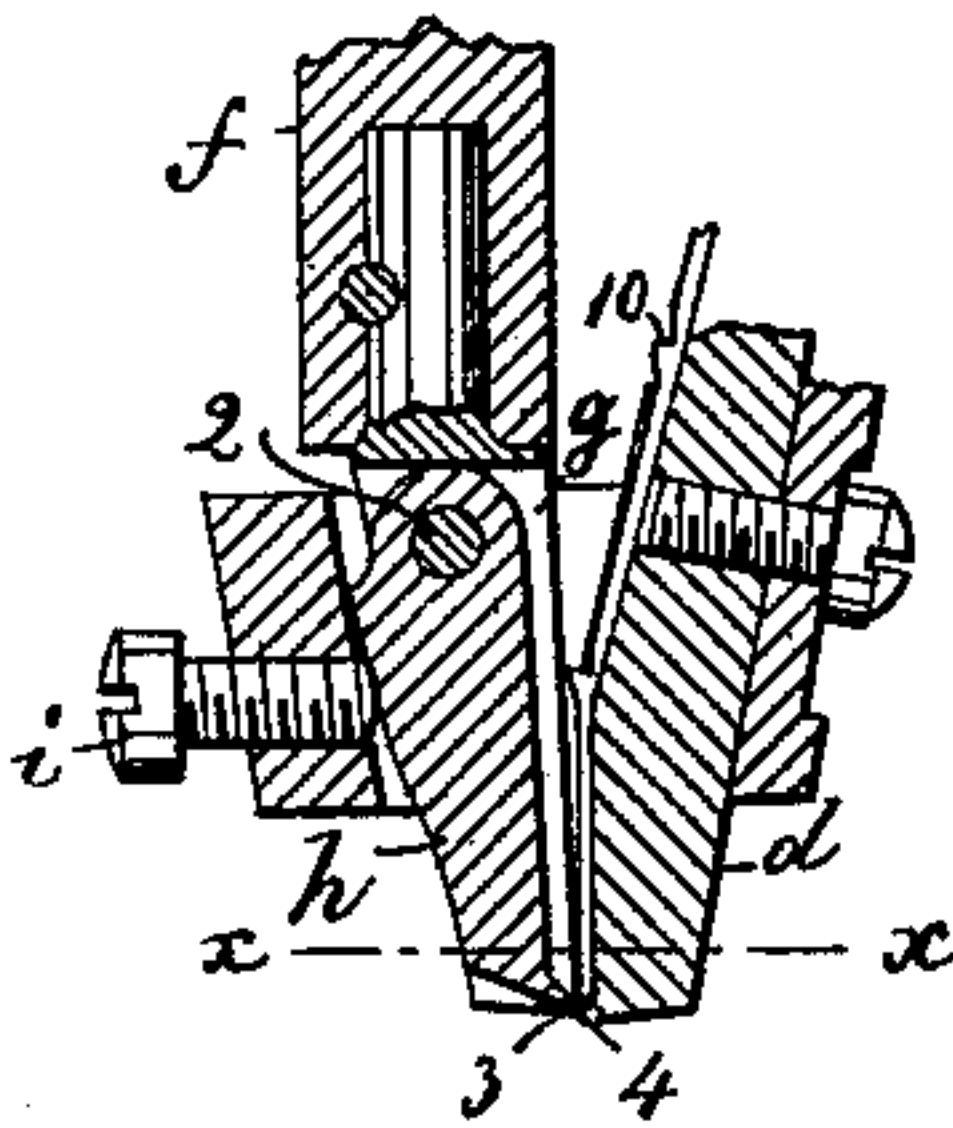


Fig:3.

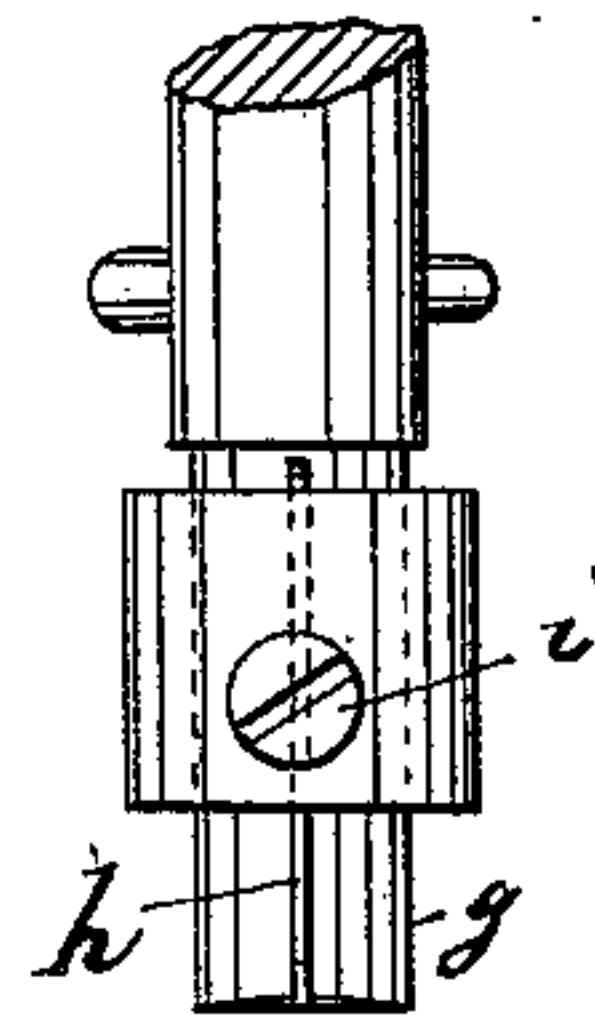


Fig:4.



Witnesses.

L. F. Connor.
Arthur Reynolds

Inventor.

Gordon McKay.
by Crosby Gregory Atty.

UNITED STATES PATENT OFFICE.

GORDON McKAY, OF CAMBRIDGE, MASSACHUSETTS.

NAILING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 229,442, dated June 29, 1880.

Application filed May 10, 1880. (No model.)

To all whom it may concern:

Be it known that I, GORDON McKAY, of Cambridge, county of Middlesex, State of Massachusetts, have invented an Improvement in Nailing-Machines, of which the following description, in connection with the accompanying drawings, is a specification.

This invention relates to nailing-machines for boot and shoe work; and it consists, essentially, in the combination, with the nail-driver, of an independent cutter connected with and made movable upon the driver in a plane at right angles, or nearly so, with relation to the line of movement of the driver, the cutter operating to cut the nail from the string or wire nail of usual construction.

Figure 1 represents in side elevation sufficient of a nailing-machine to illustrate my invention, the machine selected by me for such illustration being a well-known hand nailing-machine now commonly sold, and driving what is known as "string-nails." Fig. 2 is a vertical section taken through the lower end of the driver and cutter and the surface upon which the smooth side of the string-nail strip rests; Fig. 3, a rear elevation of the lower end of the nailing-machine, looking at it from the left of Fig. 1; and Fig. 4 is a cross-section of Fig. 2 on the dotted line *x x*.

The reel or spool *a*, to hold the string-nails or wire fastenings, the hand part *b*, the guide-way *c* for the wire, and the adjustable nose *d*, having its lower edge serrated and projected a little, as at 4, to form the stationary cutting member, are all as usual, and not of this my present invention. The driver-bar *f*, adapted to be reciprocated in the usual guides and elevated, as usual, by a spring in the said hand part *b*, has at its lower end the driver *g*, which is slotted longitudinally a short distance upward from its lower end, and within the said slot I have placed the cutter *h*. This cutter herein shown, pivoted at 2, has at its lower end a projection, 3, to co-operate with the edge 4 of the nose and sever the driven nail from the string of nails just as the lower end of the driver, acting on the head 10 of the said nail,

comes opposite or in line with the lower end of the said nose. The inward movement of the cutter *h* toward and so as to sever the driven nail from the string of wire nails is caused at the proper time by the action of the rear edge of the cutter against the screw or stop *i*, the adjustment of which governs the extent of inward movement of the said cutter.

Usually the corner of the lower end of the driver has itself acted as the movable cutting member. The thickness of the cutter is substantially the diameter or thickness of the wire nail-string at the point of the nail to be severed, and is never as thick as the diameter of the head of the nail being driven, for the driver itself is made to act upon the head of and drive the nail, and the cutter performs no function as a driver.

The part of the pin 2 directly in contact with the cutter is made eccentric, so that the cutter may be adjusted vertically with relation to the lower end of the driver or the stationary cutter 4 to provide for grinding the cutter *h*.

I claim—

1. In a nailing or tacking machine, the nose provided with or holding one member of the nail-cutter, combined with the driver provided with an independently-movable cutter, to sever the driven nail from the string of nails or fastening-wire, substantially as described.

2. The driver-bar slotted at its lower end, combined with the movable cutter carried by the said driver and the stop to determine the inward throw of the said cutter, substantially as described.

3. The driver and its pivoted cutter *h*, combined with the eccentric pin to hold and adjust the cutter, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GORDON McKAY.

Witnesses:

G. W. GREGORY,
W. H. SEGSTON.