

W. J. Johnson,
Carnet Stretcher,
No. 62,138, Patented Feb. 19, 1867.

Fig. 3.

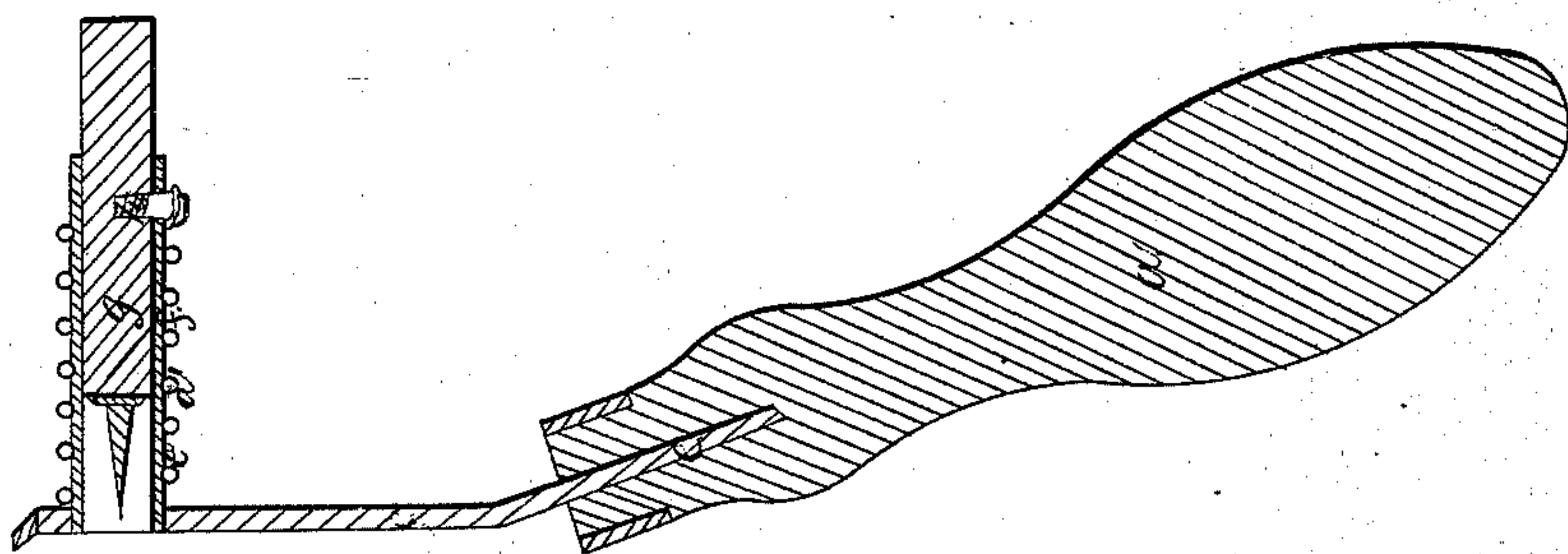


Fig. 2.

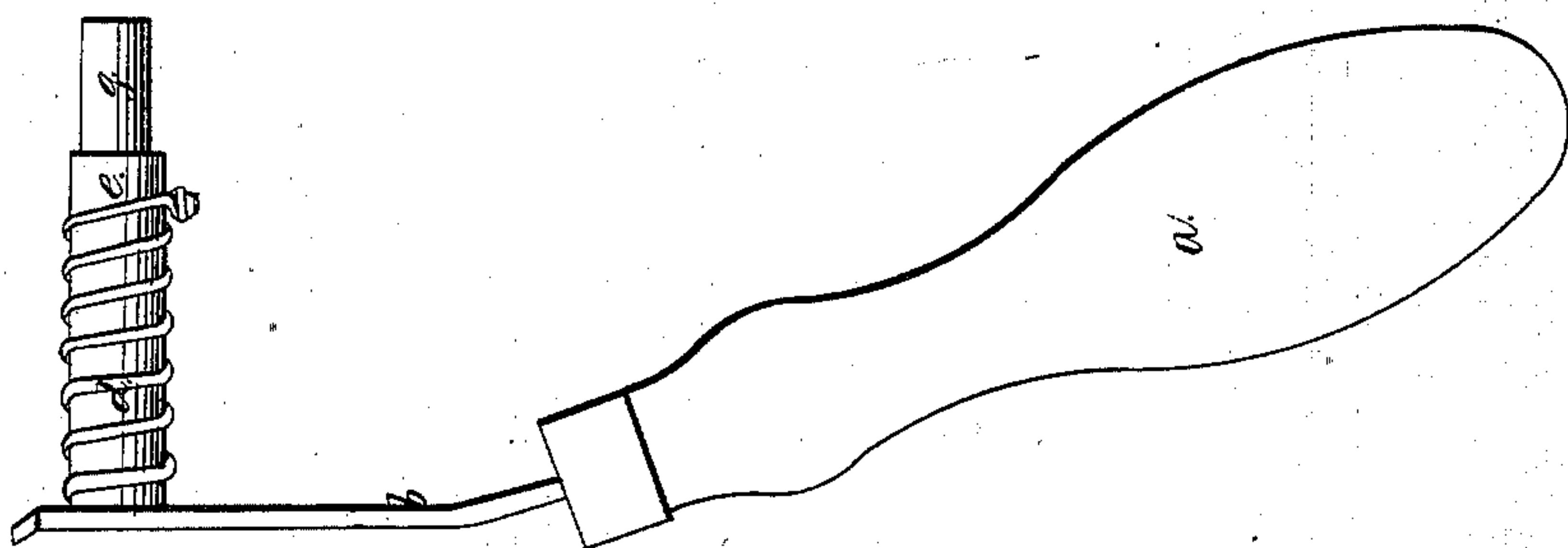
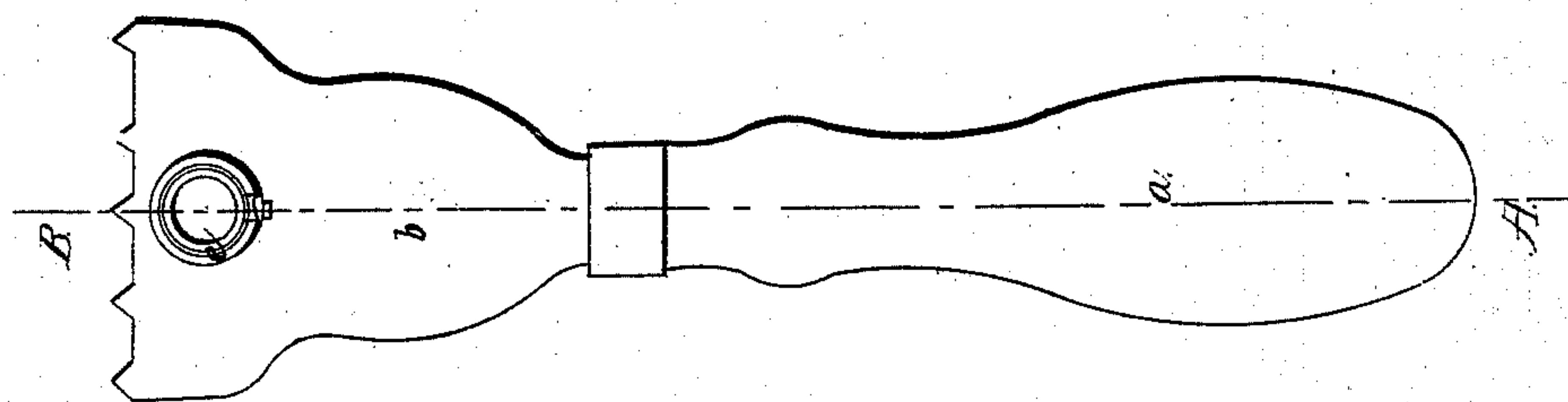


Fig. 1.



Witnesses:
A. R. Brown
E. A. Alger

Inventor.
W. J. Johnson

United States Patent Office.

WILLIAM J. JOHNSON, OF NEWTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND H. A. HILDRETH, OF LOWELL, MASSACHUSETTS.

Letters Patent No. 62,138, dated February 19, 1867.

IMPROVED CARPET STRETCHER.

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, WILLIAM J. JOHNSON, of Newton, in the county of Middlesex, and State of Massachusetts, have invented new and useful improvements in Carpet Stretchers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing a mechanical device sufficiently magnetized to receive and hold a tack or nail preparatory to its being driven into wood, or any other material, in any direction or angle.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 represents a plan of my improved carpet stretcher.

Figure 2 represents a side elevation of the same.

Figure 3 represents a vertical section through A and B of fig. 1.

a represents the handle; *b*, the serrated stretcher-plate with its shank *c*; *d*, the spring; *e*, the tube; *f*, the slot; *g*, the magnetic piston; and *h*, the steady-pin. The plate *b* is made with teeth, or serrated at the end, and fastened on the handle *a* by means of the shank *c*. Near the teeth, in the plate *b*, a suitable hole is made to receive and fasten firmly the tube *e* at right or any other angle with the plate, as may be desired, with its slot *f*. The magnetic piston *g* is made so as to fit and slide freely through the tube *e*. Near the end the pin *h* is attached, to which one end of the spring *d* is fastened, encircling the tube *e*, the other end bearing against the plate *b*, the spring *d* giving the required action to the magnetic piston *g* when necessary, and also holding it in the tube *e*, so as to give the required room or space for the tack or nail, the piston *g*, at one end, having, previous to its insertion in the tube *e*, been heavily artificially charged with magnet or loadstone. The operator, with the handle *a* in hand, inserts the stretcher, then drops a tack or nail head downwards into the tube *e*, which tube *e* in all cases being non-magnetic, is instantly attracted to the piston *g*, and held by the magnetic power, as seen in fig. 3. The operator then inverts the stretcher to its former position, then places the serrated teeth against the edge of the carpet, presses it forward, stretches the edge of the carpet to its place; at the same time, with a stroke of a suitable instrument, made of any material, on the end of the piston *g*, drives home the tack or nail through the carpet into the floor, vertical or at any angle, which fastens the same. The instrument being removed, the magnetic piston *g* resumes its former position by aid of the spring *d*, and the stretcher is ready to receive another tack or nail. Thus it is obvious and apparent by this device a nail or tack can be driven down vertically, or at any other angle, insuring the complete insertion of the shank of the tack or nail without any risk or danger of being drawn and re-driven, which operation cannot be attained by the magnetic-hammer face; therefore I disclaim applying magnetism in connection with a hammer.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. I claim a carpet stretcher with a piston, or its equivalent, magnetically charged, for the purpose substantially as described.

2. I claim a carpet-stretching device, in combination with a magnetic tack-driving arrangement, for the purpose substantially as described.

W. J. JOHNSON.

Witnesses:

A. R. BROWN.

E. A. ALGER.