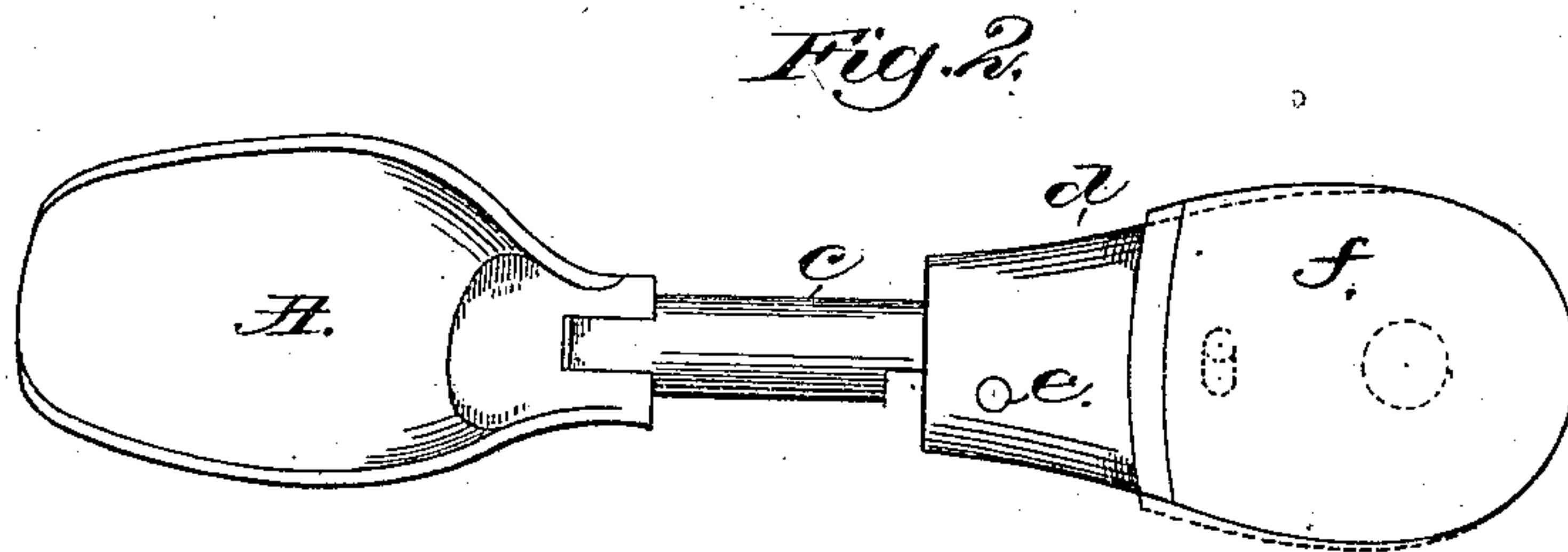
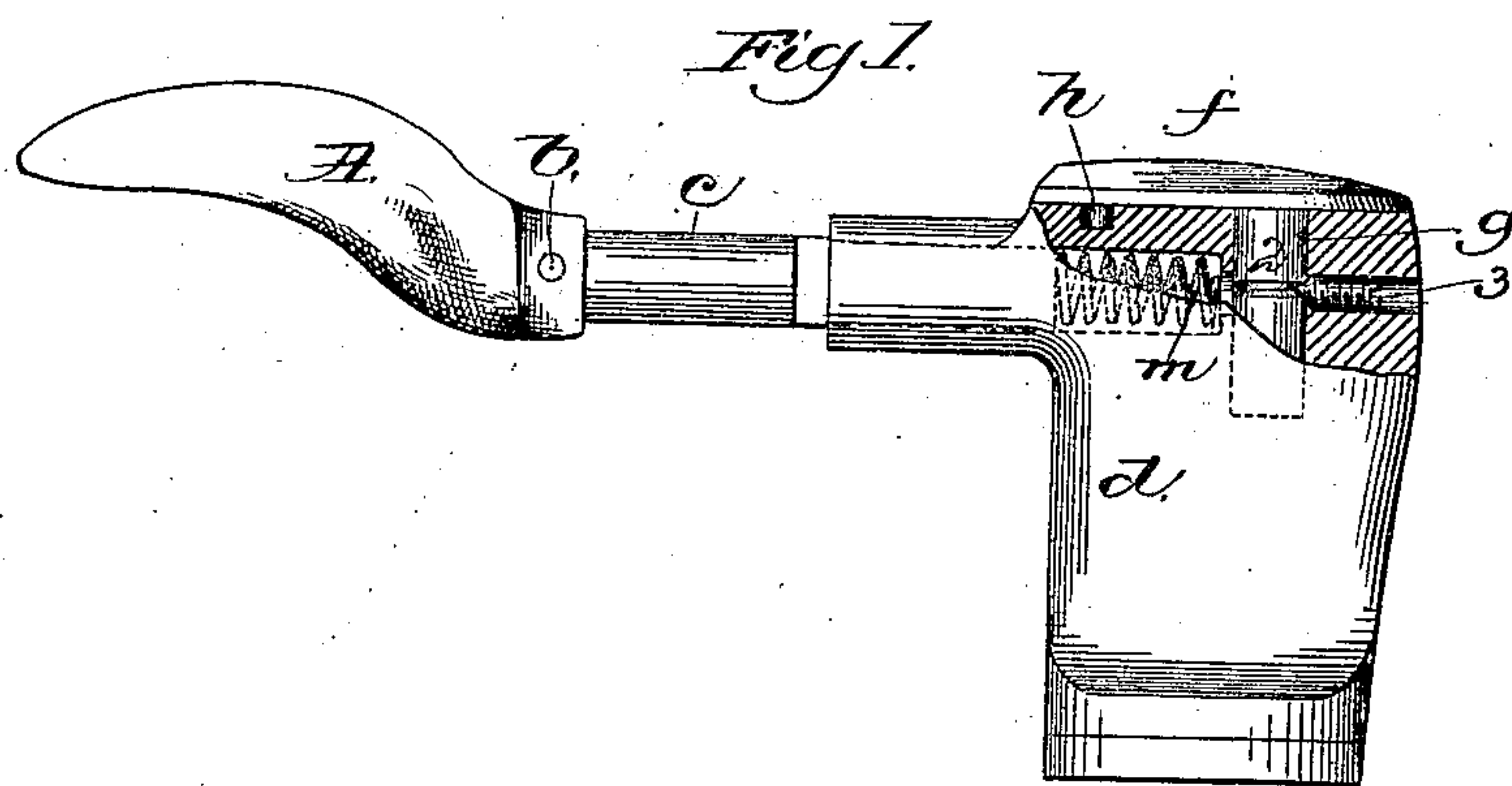


(No Model.)

J. F. McMULLETT.
LAST.

No. 266,298.

Patented Oct. 24, 1882.



Witnesses,
John F. C. Pinkert
Fred A. P. Mill.

Inventor,
James F. McMullett.
by Crosby & Gregory

UNITED STATES PATENT OFFICE.

JAMES F. McMULLETT, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
JAMES W. BROOKS, (TRUSTEE,) OF CAMBRIDGE, MASSACHUSETTS.

LAST.

SPECIFICATION forming part of Letters Patent No. 266,298, dated October 24, 1882.
Application filed August 19, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. McMULLETT, of the city and county of Philadelphia, State of Pennsylvania, have invented an Improvement in Lasts, of which the following description, in connection with the accompanying drawings, is a specification.

My invention in lasts is shown as embodied in an iron last of the shape commonly employed to hold boots or shoes when being heeled, or while their heels are being trimmed. In this class of last as heretofore made the heel-seat has been a fixture, and has operated differently when used to hold right or left foot shoes in a machine for trimming the heels of boots or shoes.

My invention consists in providing a last with a pivoted heel-seat.

The fixed seat, resting within the shoe in contact with the heel end of the inner sole, has acted against the material of the shoe just at the rear of the shank and next the sole, so as to force outward at that point for too great a distance the upper or quarter which is to cover the inner side of the foot of the wearer of the boot or shoe; but the portion of the shoe to cover the outer side of the foot has not been pressed out far enough, and consequently it has required considerable care on the part of the operator when trimming the heels of right and left foot boots or shoes to trim the same uniformly. This difficulty I have avoided by pivoting the heel-seat so that it may readily turn on the main wheel part of the last and readily adapt itself to a right or left foot boot or shoe.

Figure 1 represents in side elevation and partial section a last embodying my invention; and Fig. 2 represents a top view thereof, the full and dotted lines showing the heel-seat in its two extreme positions.

The toe-part A of the last is pivoted upon the extension-rod or center piece, *c*, at *b*, and the rear end of the center piece, *c*, is adjust-

bly held in the main part *d* of the heel by 45 means of the pin *e*, piece *c* resting against a spiral spring, *m*.

As thus far described, the last is as common. In accordance with my invention I provide the part *d* with a movable heel-seat, *f*. This heel- 50 seat has a stem, *g*, which is placed loosely into a socket in the part *d*, as shown in Fig. 1. This stem is provided with a groove, 2, which receives the conical end of the screw 3, the latter preventing the stem *g* from being drawn 55 out of the socket in the last, but permitting the stem to turn in the said socket as the heel-seat is vibrated or moved to one or the other side of the part *d* of the last by the action of a shoe placed on the last. The loosely-held 60 heel-seat at its under side is provided with a stop, *h*, extended down into a short slot, (see dotted lines, Fig. 2.) which limits the extent of vibration of the heel-seat; but in practice, when the last is in a shoe, the heel-seat seldom, 65 if ever, vibrates sufficiently far as to cause the pin *h* to meet the end of the slot in which it plays.

I claim—

1. The toe-piece A of the last, the center 70 piece, and main or heel part *d*, combined with the independent movable heel-seat *f*, substantially as and for the purposes set forth.

2. The main or heel part of the extensible last, and the heel-seat *f*, pivoted thereon to 75 move or vibrate horizontally, as set forth, combined with means, substantially as described, to limit the extent of horizontal vibration of the heel-seat to right and left shoes, as and for the purposes set forth. 80

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

JAS. F. McMULLETT.

Witnesses:

JOHN A. WIEDERSHEIM,
W. F. KIRCHER.