

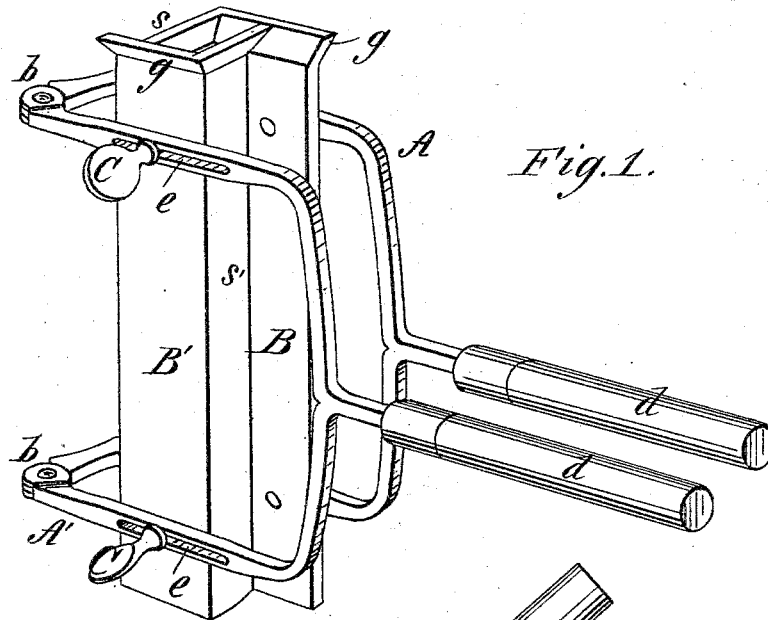
(No Model.)

A. H. McCLURE & A. PFIRSCH.

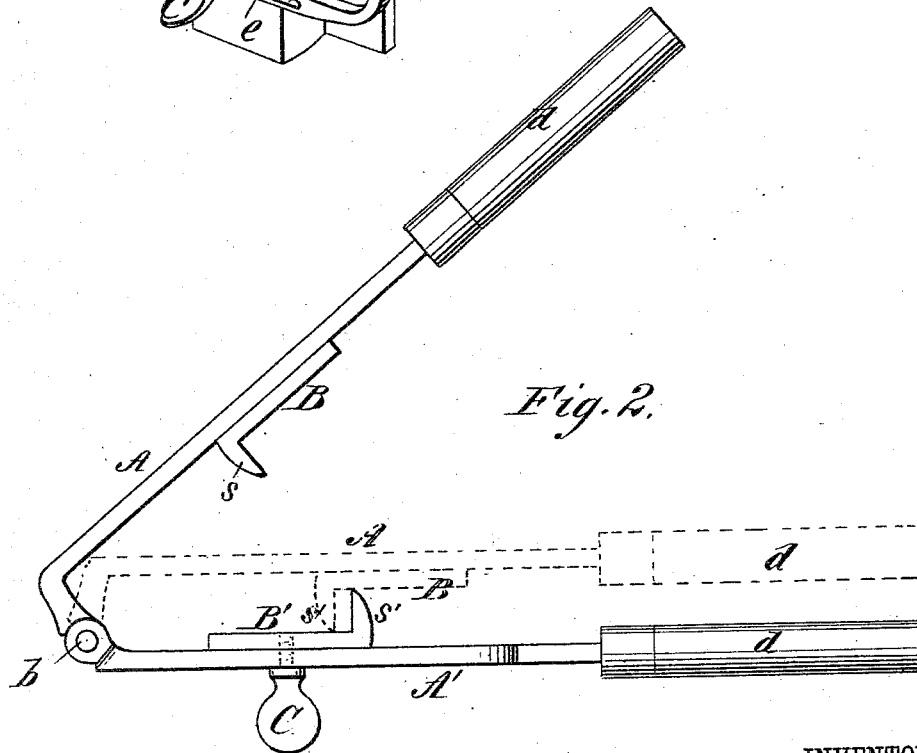
DEVICE FOR CASTING PRINTERS' LEADS.

No. 303,026.

Patented Aug. 5, 1884.



*Fig. 1.*



*Fig. 2.*

WITNESSES:

*Donn Twitchell.*  
*Co. Sedgwick*

INVENTOR:

*A. H. McClure*  
*A. Pfirsch*

BY

*Munn & Co*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

ARTHUR H. McCLURE, OF BUFFALO, AND ADAM PFIRSCH, OF ALLEGANY,  
NEW YORK.

## DEVICE FOR CASTING PRINTERS' LEADS.

SPECIFICATION forming part of Letters Patent No. 303,026, dated August 5, 1884.

Application filed October 2, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, ARTHUR H. McCLURE, of Buffalo, in the county of Erie and State of New York, and ADAM PFIRSCH, of Allegany, in the county of Cattaraugus and State of New York, have invented a new and Improved Device for Casting Printers' Leads, Slugs, &c., of which the following is a full, clear, and exact description.

10 This invention consists in a simple hand apparatus or device for casting leads, slugs, and other like printers' articles or furniture from either new or old metal, but which will be found especially useful in country printing-offices, and whereby printers may make their own leads, slugs, &c., out of the hell-box or from old metal, and this in a very easy, rapid, and perfect manner, with every provision for adjustment to suit different sizes of work.

20 The invention includes two frames hinged together at their one end and provided with handles at their opposite end, and having plates on their inner faces conforming in shape to the casting to be produced, and the one of which is adjustable, said plates, when the frames are closed and the apparatus turned up on end, forming a vertical mold for production of the casting, substantially as hereinafter described.

30 Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

35 Figure 1 represents a view in perspective of a hand device or apparatus embodying our invention, and showing the same closed as ready for use; and Fig. 2, a plan view, upon a larger scale, of the same, shown by full lines as open, and also represented as closed by full and dotted lines, the top flanges not being shown.

40 The apparatus is made mainly or wholly of iron—that is, its frames A A' may be made of malleable iron and its plates B B' of a different suitable quality of iron. Said frames are of light or skeleton construction, forming two independent jaws, which are hinged together, as at *bb*, and are fitted on their opposite or opening and closing sides, where they are bowed, and have central outwardly-projecting

shanks, with handles *d d*, made of wood or other poor conductor of heat to facilitate handling. Arranged across these frames A A', upon their inner faces, are the two plates B B', made with ledges or projecting lips *s s'* on their faces, along their front and back longitudinal margins, respectively, so that when the frames are closed, as represented by full and dotted lines in Fig. 2, the lip of each plate will rest upon the face of the adjacent plate, and said plates will be made to form a mold of the required shape of the casting to be produced. The one, B, of these plates may be securely bolted to the frame A, which carries it; but the other plate, B', is made adjustable along its frame to vary the size of the mold, and is secured in position by thumb-screws C C, arranged to pass through longitudinal slots *ee* in the opposite end arms of the frame B'; or both plates B B' might be made similarly adjustable, if desired, to change the distance of the lips *s s'* apart. The arrangement of the double hinges *bb* at opposite ends of the frames makes it impossible for the device to change gage after it has been set to the required size of mold.

75 In using the device, the same is closed by bringing together or toward each other the handles *d d*, as shown by full and dotted lines in Fig. 2, and heated in any suitable fire, and the metal to be cast is poured from a ladle into the upper end of the mold, as formed by the plates B B', the apparatus being placed upon end and set upon a small box of sand, to stop the mold at the bottom and prevent the molten metal from passing out therefrom.

85 The device can be unloaded as fast as the casting is made by opening the frames A A' through their handles *d d*. It may be made of any desired size; but it will be generally sufficient to make it about sixty-five (65) ems pica long or deep, as this size will cast from nonpareil slugs up to furniture eight (8) ems pica wide.

95 The plates B B' may each be constructed with a flange, *g*, on their top, as shown in Fig. 1, so that when the apparatus is closed the same will form a funnel to facilitate the pouring of the hot metal into the mold.

Each apparatus will be furnished with a suitable filling ladle.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A device for casting leads, slugs, and other like printers' articles or furniture, consisting of a pair of hinged jaws or frames provided with handles on their opening and closing sides or portions, and fitted on their faces with plates adjustable with relation to each other, and constructed to form an open-ended mold of the required size and shape when the frames are shut to or closed, substantially as specified.

2. In a device for casting leads, slugs, and other like printers' articles or furniture, the combination, with the hinged jaws or frames A A', having handles for opening and closing them, of the plates B B', secured on the inner faces of said frames, and constructed with lips or ledges *s s'* on reverse longitudinal sides of their faces, respectively, and adjustable

in relation with each other to vary the distance of said lips apart for the purpose of varying the size of the mold formed by said plates, essentially as described.

3. The combination of the skeleton frames A A', having duplicate hinges *b b*, and the one, A', of which has slots *e e* along its opposite ends or arms, the handles *d d*, the stationary plate B, secured across the face of the one frame, A, and formed with a lip, *s*, along the one side of its face, the adjustable similar plate B', having a lip, *s'*, along the reverse side of its face, and the thumb-screws C C, substantially as shown and described, and for the purposes herein set forth.

ARTHUR H. McCLURE.  
ADAM PFIRSCH.

Witnesses for McClure:

ZENAS M. SWIFT,  
ROSEWELL M. MORTON.

Witnesses for Pfirsch:

MASON M. DYE,  
THOMAS CLANCY.