(No Model.)

E. R. KRUCK.

POINTING MECHANISM FOR MASONRY.

No. 482,369. Patented Sept. 13, 1892.

Fig. 4.

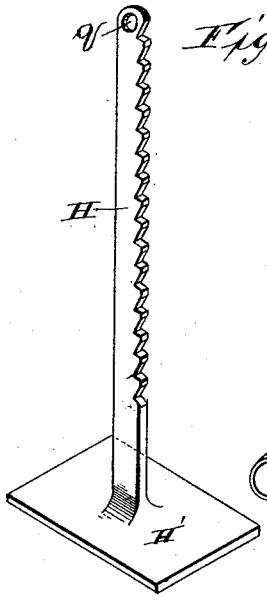


Fig. 1.

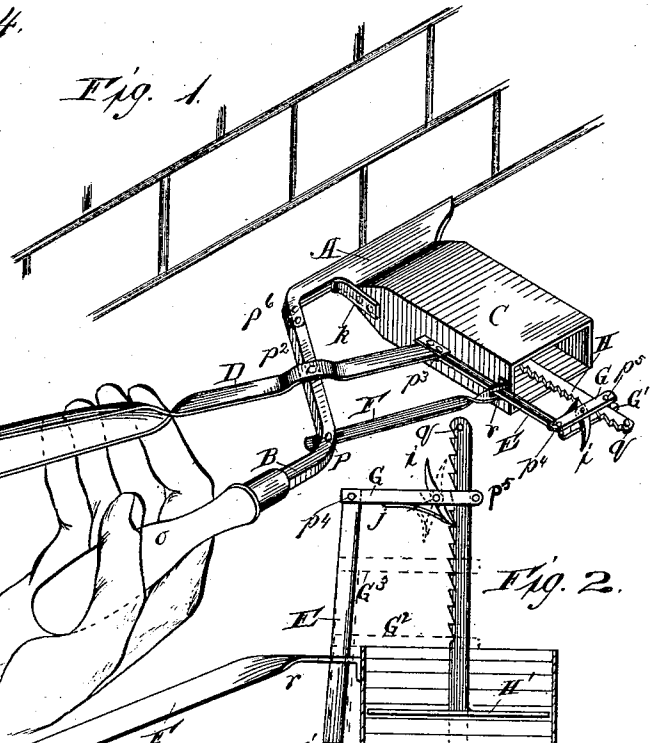


Fig. 2.

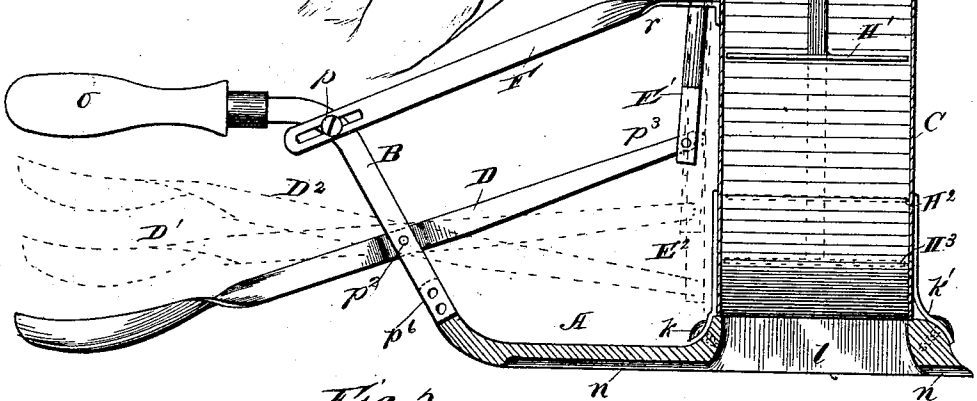
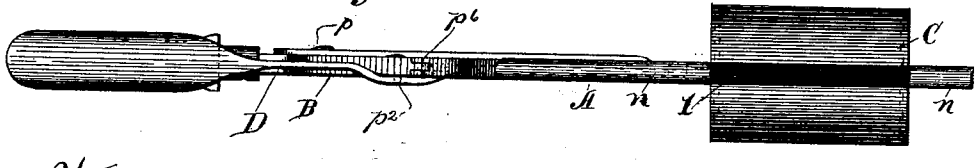


Fig. 3.



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UNITED STATES PATENT OFFICE.

ERNEST R. KRUCK, OF SIOUX CITY, IOWA.

POINTING MECHANISM FOR MASONRY.

SPECIFICATION forming part of Letters Patent No. 482,369, dated September 13, 1892.

Application filed May 4, 1892. Serial No. 431,796. (No model.)

To all whom it may concern:

Be it known that I, ERNEST R. KRUCK, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented certain new and useful Improvements in Pointing Mechanism for Masonry; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has relation to improvements in pointing mechanism for masonry; and the object is to provide a feed-box containing the mortar to be used, the mortar being forced out of an opening in the feed-box and against the wall by means of levers, thus saving the necessity of a separate receptacle for the mortar.

My invention therefore consists in the novel construction and arrangement of the parts and their combination, as will be fully described and pointed out.

I have fully illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a perspective view of the device in operation. Fig. 2 is a view in side elevation, partly in section, showing the plunger in operation by dotted lines, also feed-box and groove. Fig. 3 is a bottom plan view of the device. Fig. 4 is an enlarged perspective detail view of plunger and rod.

Referring now to the illustrations, wherein like parts are designated by similar letters of reference, A designates a suitable bar of steel or other material having an opening or feed for the mortar to pass through and groove *n n*, as shown in Fig. 2.

B is an arm or handle curved, as shown in Figs. 1 and 2, and fastened to the bar A by suitable bolt or screw, as shown at p^6.

C designates a box of tin or suitable material, made narrow and having an opening at bottom, communicating with the opening in the bar A. C is connected with the bar A by means of the braces *k k'*, which are permanently fastened to the box and secured to the bar A by means of bolts or screws, as shown in Fig. 2. In Fig. 2 the side of the box C is broken away to show the action of the plunger. The bar A may by use of the joint at p^6 and at the braces *k k'* be removed from the machine and one different in size substituted, as desired.

D is a lever-arm movably secured to the arm B at the point p^2, and is to be used in raising and lowering the plunger, as will be hereinafter described.

E is a rod forming a joint at p^3 with the arm D and connecting with the short bars G G', as seen in Figs. 1 and 2.

F is a brace secured to the feed-box C at the upper part of said box and connects with the arm B at the point *p*, as shown. F has an opening or slot, as *r*, through which the rod E passes, serving, also, as a guide for said rod. The rod E has a motion corresponding to that of the plunger and works parallel with the feed-box.

G G' are short bars secured at right angles to the rod E at the point p^4. The bars G G' have an opening for the plunger-rod to pass through, but are closed at the outer end at the point p^5. H is a plunger-rod provided with a plunger or cap H' at lower end, and is a notched bar passing between the bars G G', engaging with a ratchet *i*, which is held in place by the spring *j*.

l is an opening or feed in the bar A, communicating with the feed-box C. The side of the bar A in Fig. 2 is broken away, showing the opening *l* and the groove *n n*, one flange of the groove being shown.

o is a suitable handle upon the arm B. *p* p^2 p^3 p^4 p^5 p^6 are joints or connections of the levers and bars, as already shown.

q is an opening in the upper end of the notched bar H, in which a plug may be inserted to prevent the bar from dropping through the bars G G'. The plunger-rod H is notched, in order that it may be adjusted to engage the ratchet *i* and by again bringing the lever D into operation force all the mortar from the feed-box, as will be hereinafter shown.

The operation of my invention is as follows: The feed-box C is first filled with mortar and the plunger inserted. The machine is placed against the wall in the position shown in Fig. 1, and as it is moved along the lever D is pressed toward the handle *o*, as shown by dotted lines D' D'', Fig. 2, thus acting upon the

plunger-rod H by means of the rod E, bars G G′, and ratchet *i*. The plunger H′ forces the mortar from the feed-box C through the feed *l*, as desired. About ten feet of wall may thus be finished before refilling the box. As shown in Fig. 2, when the arm D is brought as near as possible to the handle *o*, as seen by the dotted line D″, the plunger H′ will be in the position shown by the dotted line H″ and the box will not be emptied of the mortar. By holding the plunger-rod firmly in one hand and pushing downward the lever D to the position shown the bars G G′ and the ratchet *i* are raised upon the plunger-rod. Then by again pressing upward the lever D the plunger H′ is forced into the position shown by the dotted line H^3 and the feed-box is emptied of all the mortar.

Having thus fully and completely described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows:

1. A pointing mechanism for masonry, consisting of a box-like structure secured to a bar which has a slot or groove upon its lower surface, said box having an opening communicating with said groove for the mortar to pass out, a curved arm or handle B, attached to said bar, and a plunger and plunger-rod operated within said box, said plunger-rod being notched, so as to engage a ratchet, and operated by means of a lever and lever-bars, which support said ratchet and act in conjunction with the curved arm or handle B, all as and for the purpose described.

2. The combination, in a pointing mechanism for masonry, of a box-like structure secured to a bar which has a slot or groove upon its lower surface, said box having an opening communicating with said groove for the mortar to pass out, a curved arm or handle B, attached to said bar, and a plunger and notched plunger-rod operating within said box, said plunger-rod engaging with a ratchet and operated by means of a lever and lever-bars, which support said ratchet and act in conjunction with the curved arm B, all substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

ERNEST R. KRUCK.

Witnesses:
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