

E. Weissenborn

Pencil Polisher.

N^o 89,530.

Fig: 1.

Patented Apr 27, 1869.

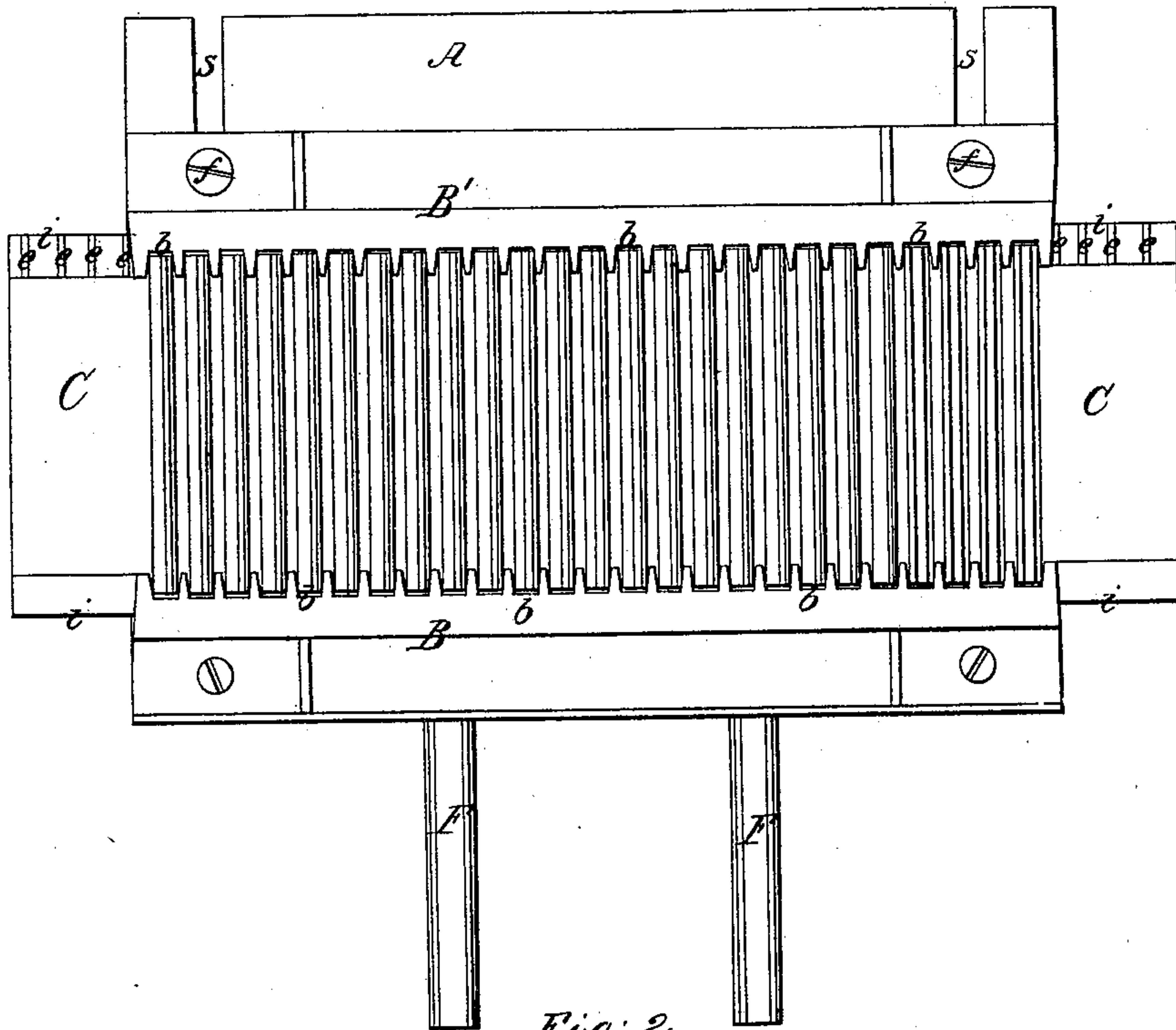


Fig: 2.

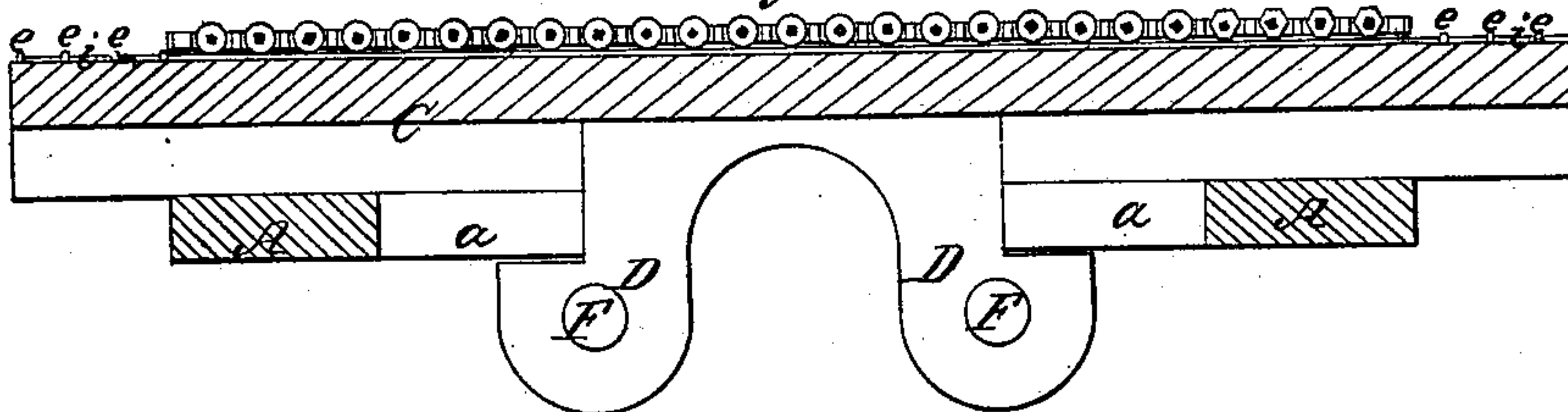
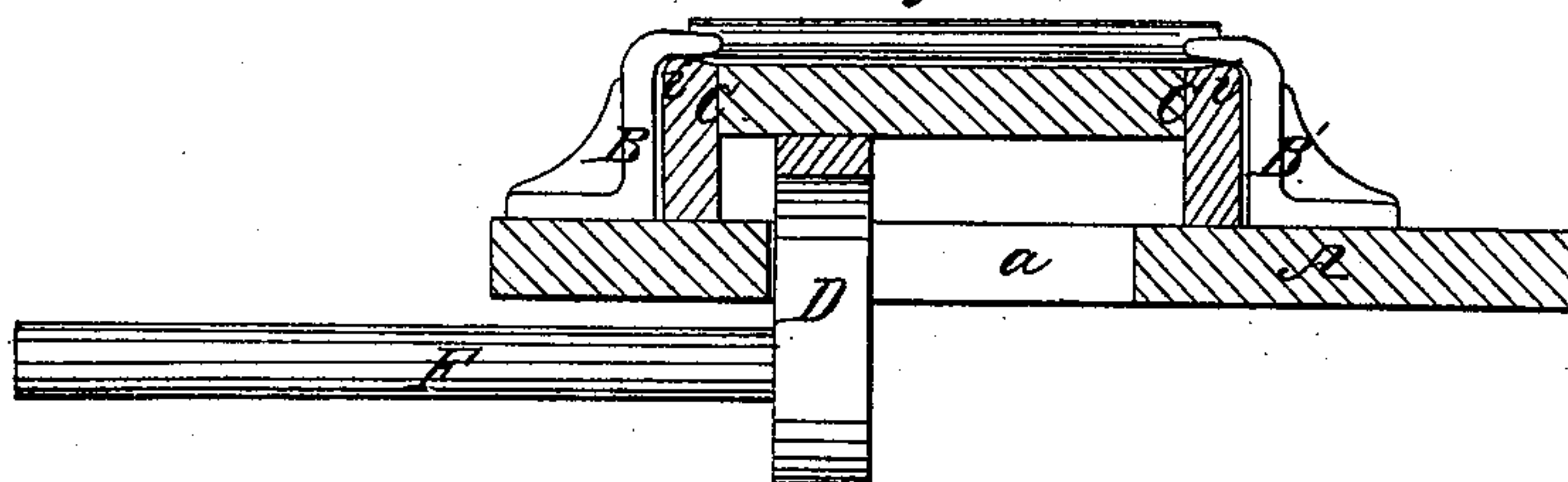


Fig: 3.



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E. WEISSENBORN, OF HUDSON CITY, NEW JERSEY.

Letters Patent No. 89,530, dated April 27, 1869.

IMPROVEMENT IN DEVICE FOR POLISHING PENCILS.

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, E. WEISSENBORN, of Hudson City, in the county of Hudson, and State of New Jersey, have invented a new and useful Machine for Polishing Lead and other Pencils; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form part of this specification, and in which—

Figure 1 represents a plan view of a machine for said purpose, constructed according to my invention;

Figure 2, a vertical longitudinal section of the same; and

Figure 3, a transverse section of the same.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to provide for the more rapid and convenient polishing of wood-encased lead and other pencils, by providing for the turning of the same, several at a time, while being subjected to the polishing operation; and to this end,

The invention consists in an apparatus of novel construction, whereby the desired object is attained.

Referring to the accompanying drawings—

A represents the table or fixture upon which the operation is performed, having cut through it an elongated slot, *a*.

Secured upon the top of this table or stand A, upon each side of the said slot *a*, and at sufficient distance apart for longitudinal reception between them, of the pencils to be polished, are two metal guide-pieces, B B'. Said guide-pieces are of such form in their transverse sections, as represented in fig. 3, and are of a suitable length for reception of the ends of any desirable number of pencils arranged parallel with each other, as represented in figs. 1 and 2.

Recesses *b* are formed in the faces of these guide-pieces B B, for reception of the ends of the pencils, and which serve to keep them in place, and prevent their binding or rubbing together.

Fitted, to slide under these guide-pieces B B, and so as to support the pencils, is a sliding or travelling-bed C. The moving of this bed C under the pencils, causes the turning or rotating of the same, whereby their unpolished surfaces may, by degrees, be presented to the rubbing or polishing operation. By this means, the turning of the pencils is rendered far more rapid and uniform, than when turned by hand.

D D are projections attached to the under side of

this sliding bed C, and are made to extend through the slot *a*.

To these projections D D are attached horizontally-extending handles F F.

Between these handles F F the operator is designed to stand, where, by a very slight lateral movement of the body, he may effect the sliding or longitudinal movement of the bed C, and the consequent turning of the pencils, thus leaving his hands free to continue the rubbing or polishing movement.

The upper surface of this sliding bed C is made slightly concave, in a transverse direction, or rather, is somewhat depressed along its central portion, or raised at its edges *i i*, so as to allow only a small portion of the pencils, near their extremities, to rest thereon, as illustrated in fig. 3.

By this means, the polished surfaces of the pencils are protected from injury or defacement by contact with the surface of said bed during the turning or rotating of the pencils over the same.

These raised edges *i i*, which serve as points of contact for the pencils, are, when hexagonal or polygonal pencils are to be polished, provided with ridges *e*, so as to render more certain their turning when the bed C is moved.

A means of adjustment is or may be given to one of the guide-pieces, as B', for the purpose of suiting the machine to pencils of more than one length.

For this purpose, parallel slots, *s s*, may be made in the table A, for the sliding of the screws *f f*, when the guide-piece B' is being moved in or out.

When the said guide-piece B' is moved in or out, a sliding bed, of corresponding breadth, should also be used.

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

1. The combination of the guide-pieces B B, having recesses, for separating and retaining the ends of the pencils, and the travelling-bed C, for supporting and turning the pencils, substantially as herein described.

2. The travelling-platform C, provided with raised edges *i i*, and parallel ridges *e*, substantially as and for the purpose herein set forth.

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Witnesses:

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