

(No Model.)

B. C. YOUNG.
SOLE BUFFING MACHINE.

No. 253,808.

Patented Feb. 14, 1882.

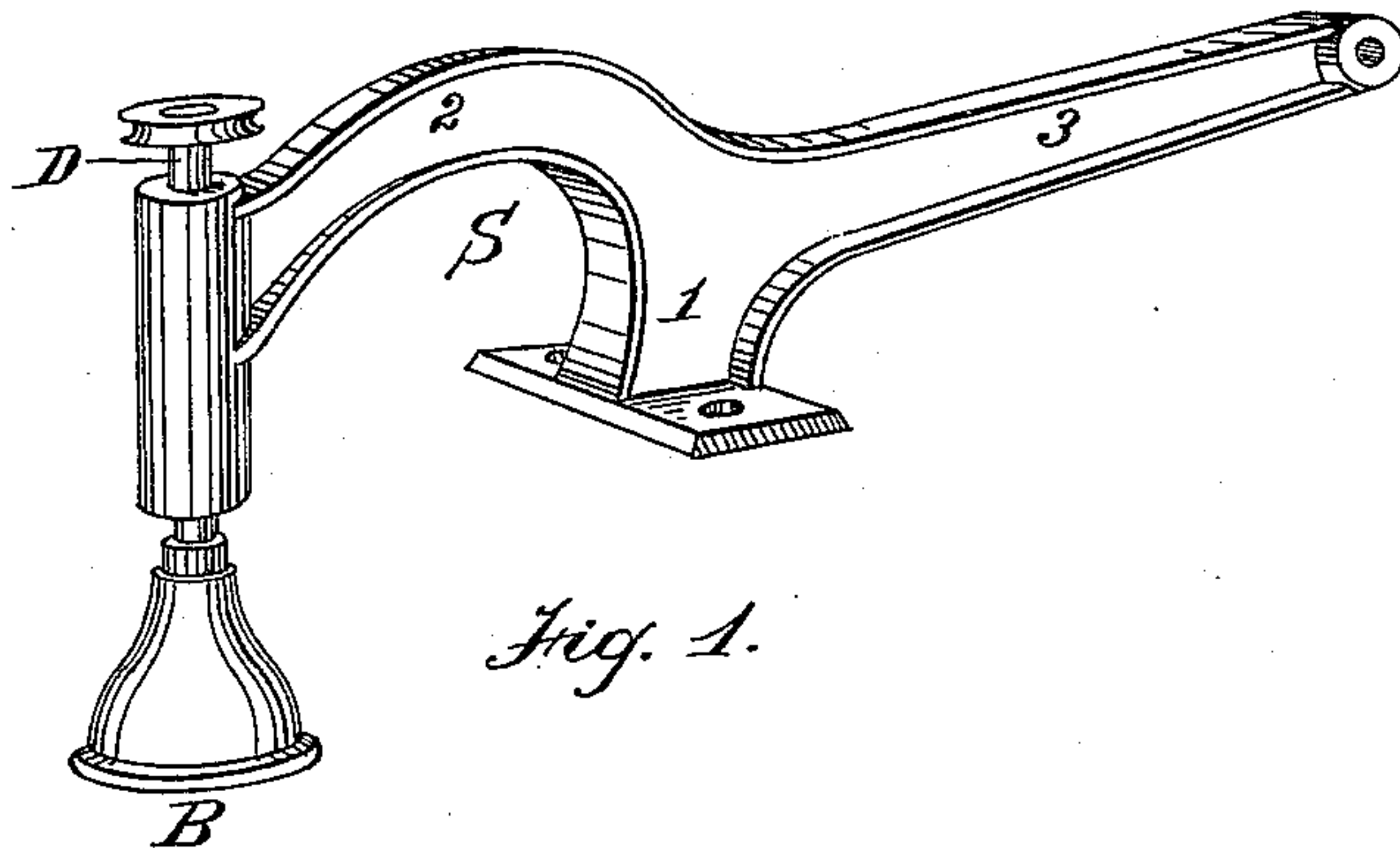


Fig. 1.

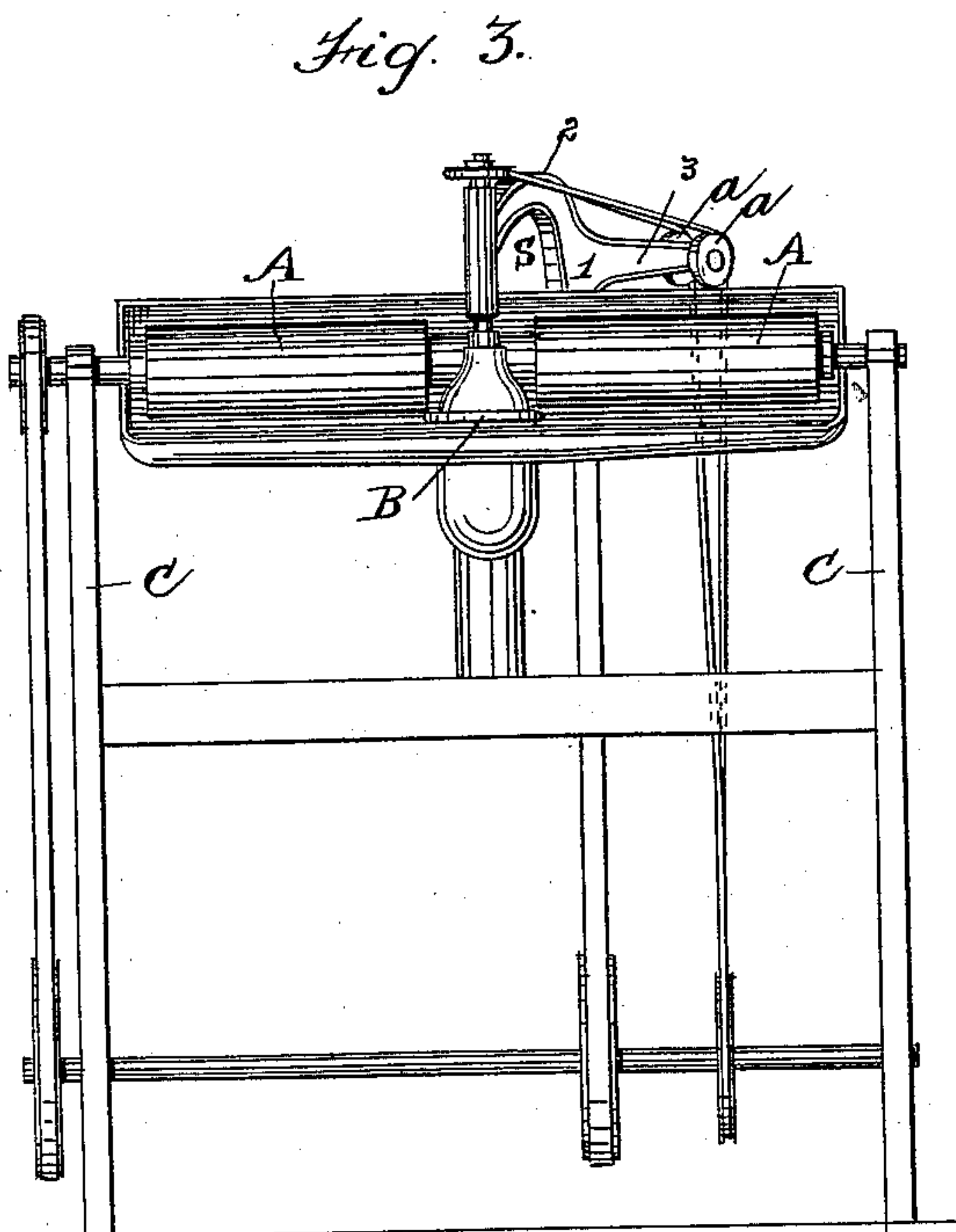


Fig. 3.

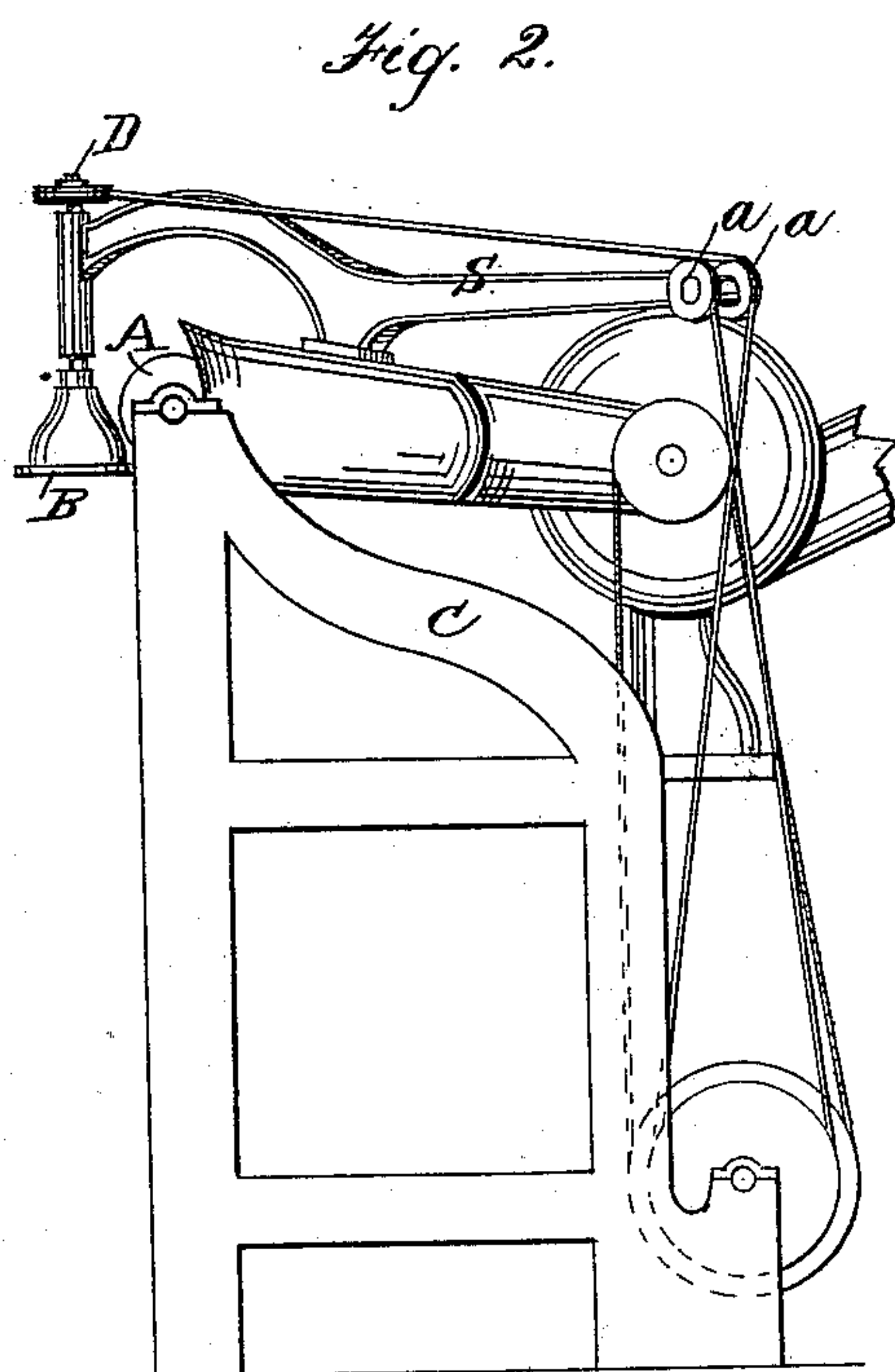


Fig. 2.

Witnesses:
H. G. Madlin
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UNITED STATES PATENT OFFICE.

BARKER C. YOUNG, OF BOSTON, MASSACHUSETTS.

SOLE-BUFFING MACHINE.

SPECIFICATION forming part of Letters Patent No. 253,808, dated February 14, 1882.

Application filed July 25, 1881. (No model.)

To all whom it may concern:

Be it known that I, BARKER C. YOUNG, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Sole-Buffing Machines, of which the following is a specification.

My invention relates to improvements in machines for buffing the bottoms of boot and shoe soles; and it consists of a single organized machine adapted to complete the entire buffing operation, said machine being constructed and adapted to operate substantially as I will now proceed to describe.

Of the accompanying drawings, Figure 1 represents a perspective view of the buffing-pad and its support. Figs. 2 and 3 represent, respectively, end and front elevations of the machine complete.

The same letters indicate the same parts in all the figures.

In the drawings, A A represent the ordinary rolls used in the preliminary portions of the sole-buffing operation, and B represents the pad used to complete the buffing operation, the rolls A being journaled in a suitable frame-work, C, so as to rotate in a vertical plane, while the pad B, which is a flat disk coated with a suitable abrasive material, is applied to the end of an arbor or spindle, D, which is usually supported in a vertical journal, the pad being at right angles with its arbor and rotating horizontally. Heretofore the pad has been the operating-tool of an organized machine, and the rolls A A of a separate machine, each operating independently of the other and necessarily separated from the other, so that the operator is obliged to step from one machine to another in buffing a sole.

In carrying out my invention I provide a support, S, adapted to be attached to any desired part of the frame-work of the machine of which the rolls A A are the operating-tools, and to hold the pad B close to the ends of said rolls, as shown in Figs. 2 and 3, so that the operating-surface of the pad will be separated from the operating-surfaces of the rolls by the slightest practicable space, thereby enabling the operator to present a sole to either roll and to the pad without change of position.

The form of the support S may be variously modified without departing from the spirit of my invention. In the embodiment of said support shown in the present instance, it is composed of, first, a base, 1, adapted to be attached to a given part of the frame-work C, in this instance to the upper surface of the casing that leads from the rolls A A to the dust-removing blower E, said casing being virtually a part of the frame C; secondly, an arm, 2, having at its outer end a tubular sleeve forming a journal for the arbor D; and, thirdly, an arm, 3, having at its outer end idle-pulleys *a a*, to support the driving-belt F, that rotates the pad, said belt extending from a pulley on the shaft that gives motion to the rolls A A to a pulley on the arbor of the pad. The support S is so formed that when the base is attached to its seat on the frame-work the arm 2 will project forward over the rolls A A, and the tubular sleeve of said arm will stand vertically and project downwardly in front of said rolls.

It will be observed that the close proximity of the pad to the rolls A A enables the dust caused by the action of the pad on the sole to be drawn through the same flue or casing as the dust from the rolls.

It is obvious that the pad may be connected by its support S to an organized machine having one roll, A, instead of two.

I claim—

The herein-described organized buffing-machine, consisting of the frame-work C, the horizontal buffing-rolls A A, the buffing-pad B, mounted on the vertical shaft D, and arranged between the rolls A A and in close proximity to them, as shown, and the single driving-shaft, from which both rolls and the pad receive motion through the connecting-belts, substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 22d day of July, A. D. 1881.

BARKER C. YOUNG.

Witnesses:

H. G. WADLIN,
C. F. BROWN.