

No. 750,267.

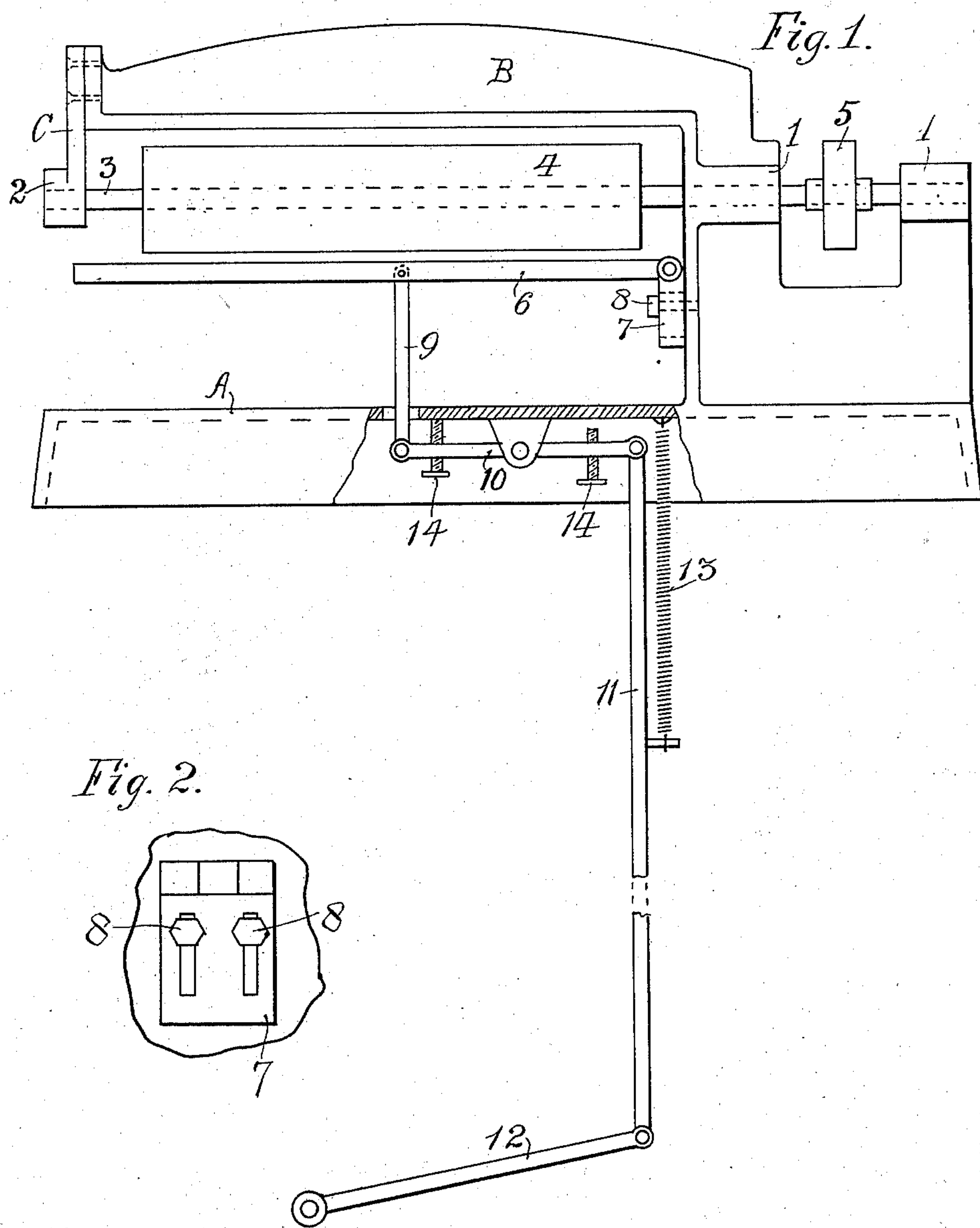
PATENTED JAN. 26, 1904.

T. DANIELS.

BOOK COVER CLEANING AND POLISHING MACHINE.

APPLICATION FILED JUNE 30, 1903.

NO MODEL.



Witnesses
Herman Lewis
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UNITED STATES PATENT OFFICE.

THOMAS DANIELS, OF BROOKLYN, NEW YORK.

BOOK-COVER CLEANING AND POLISHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 750,267, dated January 26, 1904.

Application filed June 30, 1903. Serial No. 163,732. (No model.)

To all whom it may concern:

Be it known that I, THOMAS DANIELS, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Book-Cover Cleaning and Polishing Machines, of which the following is a specification.

The present invention relates to means for cleaning and polishing book-covers and the like, the object of the invention being to provide a mechanical means for doing what has hitherto been done by handwork and to secure a better, more uniform, and more economical result.

In bookbinding, many titles, illustrations, &c., are embedded in the sides of the binding in the so-called "foils" ("Oeser leaf") and the surplus has to be removed. Heretofore this surplus has been removed by means of brushes and the like operated by hand, with the result that small particles of the foil adhere to the binding where it is not wanted and that the brushing employed to remove such particles destroys the luster of the foil embedded in the sides of the binding, as well as causing a ragged appearance at the edges of the same. By the present invention the surplus foil is expeditiously removed and the sunken parts are polished and are left with clear-cut edges.

The invention consists of features of construction, arrangements, and combinations of devices hereinafter described, and more particularly described and pointed out in the appended claims.

One embodiment of the invention is illustrated in the accompanying drawings, forming part hereof, in which—

Figure 1 is a side elevation, partly in section; and Fig. 2 is a detail of an adjustment.

In the drawings the reference A marks a base, formed of any suitable material and in any desired form, which may rest upon or be attached to any suitable support.

B marks an overhanging arm or bracket, to which a vertical plate C is detachably connected.

The references 1 2 designate suitable bearings for a shaft 3, on which a brush 4 is suit-

ably secured, and 5 marks a pulley by means of which a belt (not shown) communicates a rapid motion to the brush 4. For the purpose of brushing and polishing the bindings of books the brush 4 is usually made of a fine steel wire, the wires forming the brush projecting radially and being soft rather than stiff. Below the brush 4 is a round or other suitably-shaped rod 6, which is hinged to a plate 7. The plate 7 is slotted vertically and is adjustably connected with the fixed framework by screw-bolts 8, which pass freely through the slots and engage with threaded holes in the frame. The rod or support 6 is operated from a treadle 12 by means of a link 9, a lever 10, and a rod 11, a spring 13 being employed to draw up the treadle when this is released and to draw the rod 6 down or away from the brush 4. Adjustable stop-screws 14 in the lever 10 coact with the base A or other part to limit the motion of the lever 10, and so of the rod or support 6.

The detachable head C provides a means whereby the brush 4 may be replaced by another, and the adjustable plate 7 and stops 14 provide for the adjustment of the rod 6 so as to cause it to lie parallel with the surface of the brush when the rod 6 is raised.

The operation of the above-described device is as follows: The treadle 12 is released by the foot, thus allowing spring 13 (or the equivalent weight) to cause support 6 to drop away from the brush 4. Then the flat sides of the binding are slid in between the rapidly-revolving brush and the support 6, after which the treadle is operated to raise the support 6 to the top limit of its motion, thus bringing the side of the binding against the brush, and the binding is then drawn by hand out from between the brush and support in a direction contrary to that in which the brush revolves, or it may be drawn in the same direction; but the first method is preferred, as the particles of the foil are thereby thrown away from the operator.

The result of the operation above described, which seldom requires repetition with one and the same side, is that every particle of foil not sunk intentionally in the binding is removed and the side and sunken portions of the foil are

polished, and thus present a better and more pleasing appearance. Moreover, the operation is very short and is much more economical than the old hand methods.

5 The invention is not limited to the precise form thereof shown in the drawings and above described, since it may be embodied otherwise than as above shown and described,

What I claim is—

10 1. In a brushing and polishing machine for the use of bookbinders, &c., the combination of a framework, a rotary brush mounted therein, a work-support hinged at one end to the frame, a treadle, and lever-and-link con-
15 nections between the treadle and the work-support, substantially as described.

20 2. In a brushing and polishing machine for the use of bookbinders, &c., the combination of a framework, a rotary brush mounted therein, a plate adjustably connected with said

framework, a work-support hinged to said plate, and a treadle connected with and operating said support, substantially as described.

3. In a brushing and polishing machine for the use of bookbinders, &c., the combination 25 of a framework, a rotary brush mounted therein, a work-support hinged at one end and having said hinge adjustably connected with said framework, a treadle connected with and operating said work-support, and an adjustable 30 stop for limiting the motion of said support toward said brush, substantially as described.

Signed at New York city, in the county of New York and State of New York, this 6th day of June, A. D. 1903.

THOMAS DANIELS.

Witnesses:

WASHINGTON PAGE,
R. W. BARKLEY.