

(No Model.)

2 Sheets—Sheet 1.

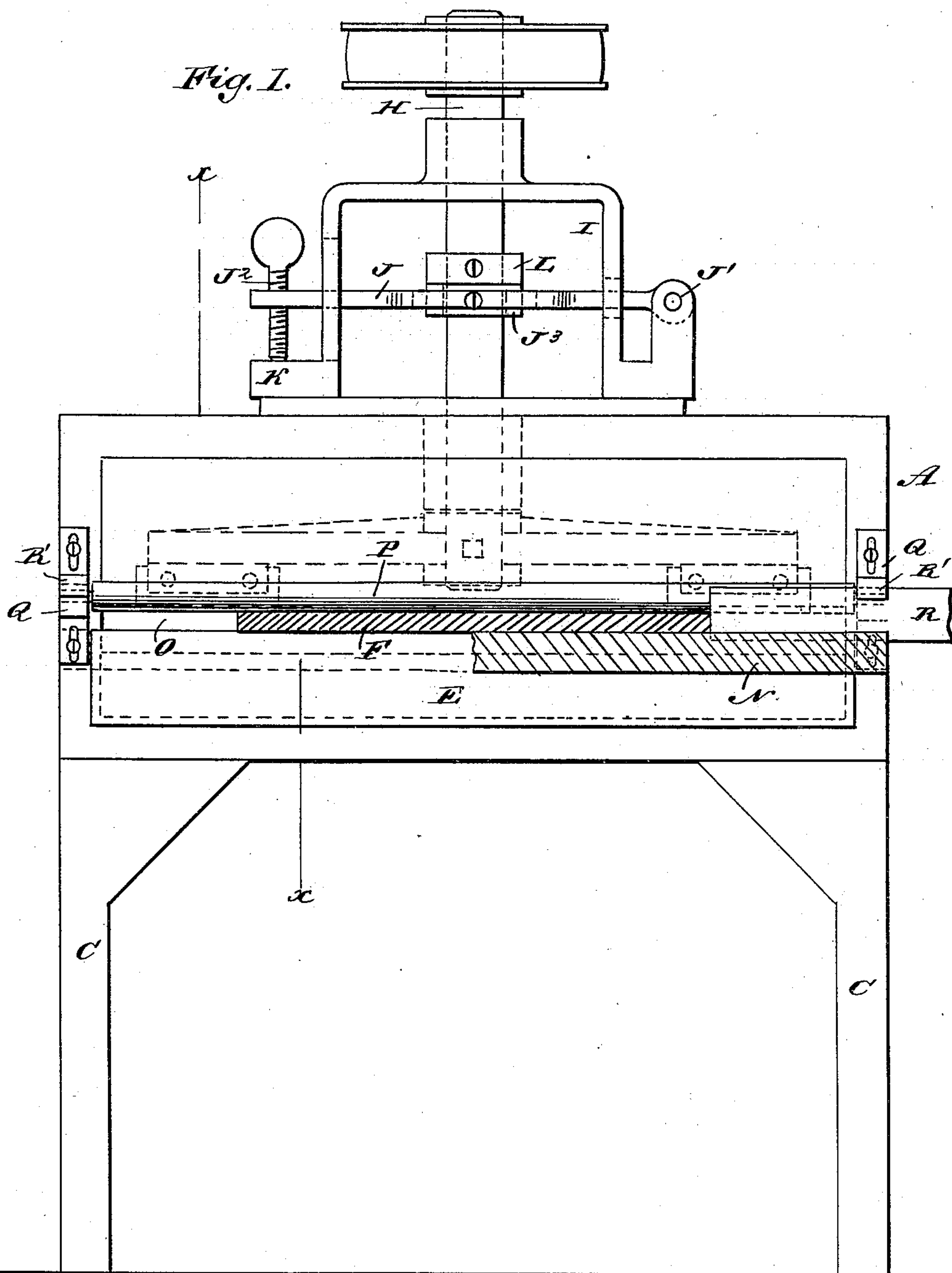
J. N. IVES.

BOOK BINDER'S GOLD CLEANING AND SAVING MACHINE.

No. 361,632.

Patented Apr. 19, 1887.

Fig. 1.



WITNESSES:

Wm. Beyer
Ed. Sedgwick

INVENTOR:

J. N. Ives
BY *Munn & Co.*
ATTORNEYS.

(No Model.)

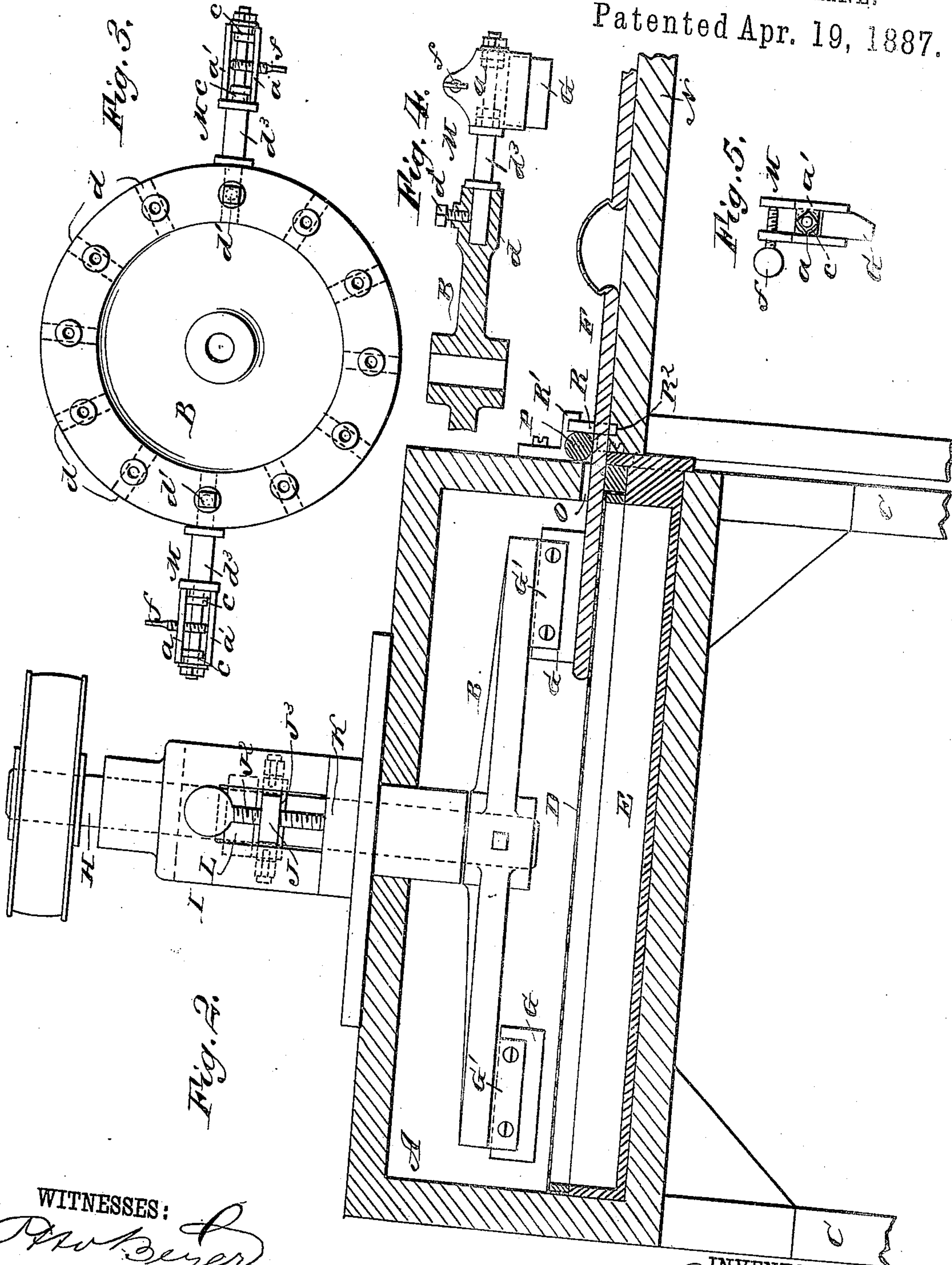
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

JOHN N. IVES, OF BROOKLYN, NEW YORK.

BOOK-BINDER'S GOLD CLEANING AND SAVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 361,632, dated April 19, 1887.

Application filed September 11, 1886. Serial No. 213,313. (No model.)

To all whom it may concern:

Be it known that I, JOHN N. IVES, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Book-Binder's Gold Cleaning and Saving Machine, of which the following is a full, clear, and exact description.

My invention relates to a machine for removing and saving the small particles of gold that adhere to book-covers after gilding; and the invention consists, principally, in the employment of wipers of soft rubber or other suitable material carried by a rotating frame inclosed in a box or suitable casing to retain the particles of gold removed by the wipers.

The invention also consists of the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

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

Figure 1 is a front elevation of the machine, showing a part of the cover-supporting table and a book-cover thereon in section. Fig. 2 is a sectional elevation of the machine, taken on the line *x x* of Fig. 1. Fig. 3 is a plan view showing a modified form of wheel or frame for carrying the wipers. Fig. 4 is a detailed sectional elevation of the same; and Fig. 5 is an end view of one of the wipers.

A represents a box or casing, which incloses the wiper frame or wheel B. This casing is supported upon suitable legs, C C, and is provided with a perforated false bottom, D, beneath which is placed the tray E, to catch and retain the particles of gold removed from the cover F by the action of the wipers G.

The frame or wheel B is secured to the lower end of the short pulley-shaft H, journaled in a frame, I, placed upon the box or casing A, and the shaft is adapted to be vertically adjusted to adapt the frame B to book-covers of different thicknesses. For thus adjusting the shaft I prefer to use the lever J, fulcrumed at J' and connected to the shaft by the loose ring J² and collar L, attached to the shaft, and provided at the opposite end with an adjusting-screw, J³, that rests upon the table K, so that by turning the screw the shaft and wiper-frame

may be raised or lowered, as will be understood from Fig. 1.

The wipers G are blocks of soft rubber or other suitable material attached to the lower surface of the frame B by clamps G', Fig. 2, and there may be as many of these wipers as desired placed radially about the frame B. In place of the clamps G', (shown in Fig. 2,) I may use separate and adjustable clamps M, (shown in Figs. 3, 4, and 5,) fitted in sockets *d*, made in the periphery of the frame or wheel B, as shown in Figs. 3 and 4, and held by set-screws *d'*. In this form of clamp the wiper G is held between jaws *a a'*, one made solid with the shank *d*³ of the clamp, the other pivoted by suitable lugs, *c c*, and acted upon by the screw *f* for closing it upon the wiper G. By loosening the set-screws *d'*, the jaws *a a'* may be set to hold the wiper G at any angle which may be found best to thoroughly wipe the cover F and effectually remove the particles of gold therefrom without injury to the gilding.

The cover F to be wiped is placed upon a table, N, and shoved into the box or casing A, under the wiper G, through the slot or narrow opening O, made in the front of the box or casing. For closing the slot or opening O, I employ a roller, P, held at its ends by the plates Q Q, which permit it to have a slight vertical movement, so that the cover may be easily shoved under it. This roller prevents currents of air, caused by the revolution of the wiper frame or wheel B, from floating out of the box or casing A any particles of gold, and when the roller P rests upon the cover the spaces at the sides of the cover are closed by two sliding plates, R, (one of which is shown in Fig. 1,) which plates may be shoved up to the edge of the cover, so that all escape of particles of gold will be effectually prevented. The plates R are held at their upper edges by the keepers R' and at their lower edges in a slot, R², made in the table N, as shown in Fig. 2.

When the machine is set in motion and the cover inserted, the wipers G are moved over the cover in concentric curves and effectually remove the particles of gold without disturbing the gilding, and the particles of gold removed drop through the perforated false bottom D into the tray E, and are thus saved.

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

1. A book-binder's gold wiping and saving
5 machine comprising a casing having a slot to receive the book-cover and a wiper frame or wheel provided with flexible radially-arranged wipers and inclosed by the casing and rotating in a plane parallel with the plane of the
10 book-cover, substantially as described.

2. The wiper-frame B, formed with the radial

sockets *d*, in combination with the removable wiper-holders M, substantially as described.

3. The casing or box A, formed with the slot O, in combination with the table N, vertically-
15 movable roller P, and sliding plate K, substantially as and for the purposes set forth.

JOHN N. IVES.

Witnesses:

EDWIN IVES,
FRDK. SCHLEY.