No. 757,456. PATENTED APR. 19, 1904.

J. HALDEN.

APPARATUS FOR REMOVING SURPLUS MOISTURE FROM PHOTOPRINTS, &c.

APPLICATION FILED AUG. 11, 1902.

NO MODEL.

Fig. 1.

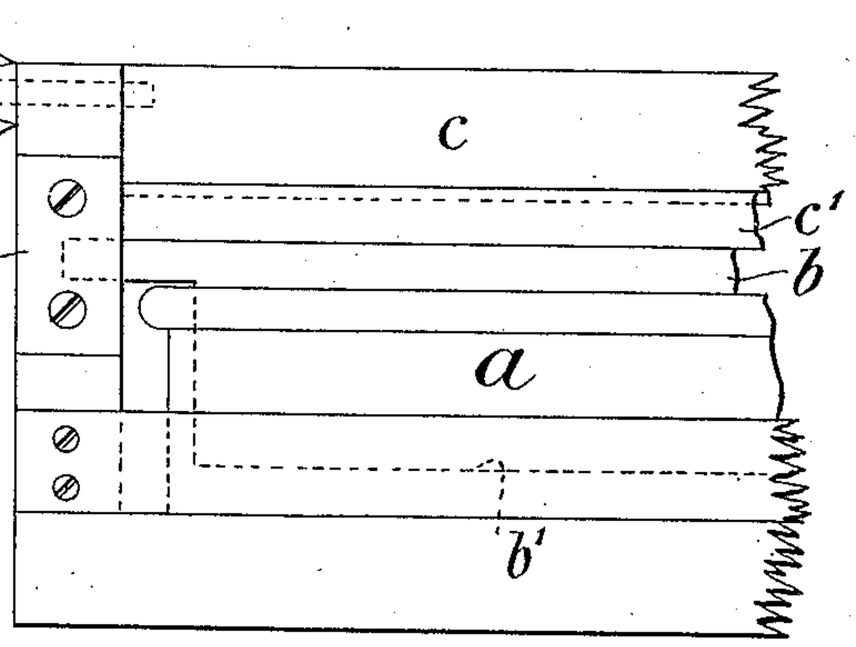

Fig. 2.

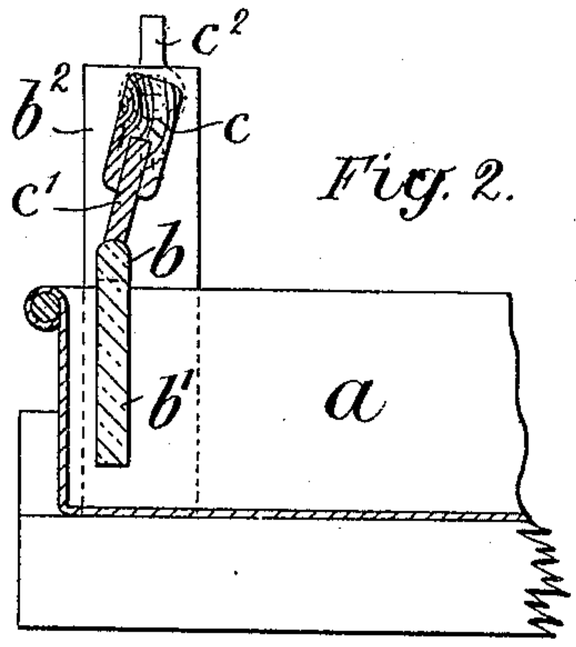

Fig. 3.

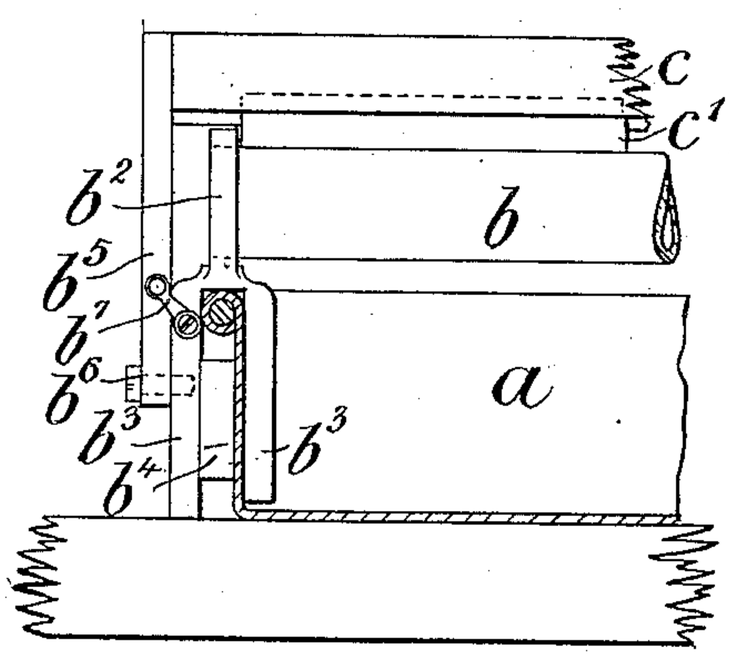

Fig. 4.

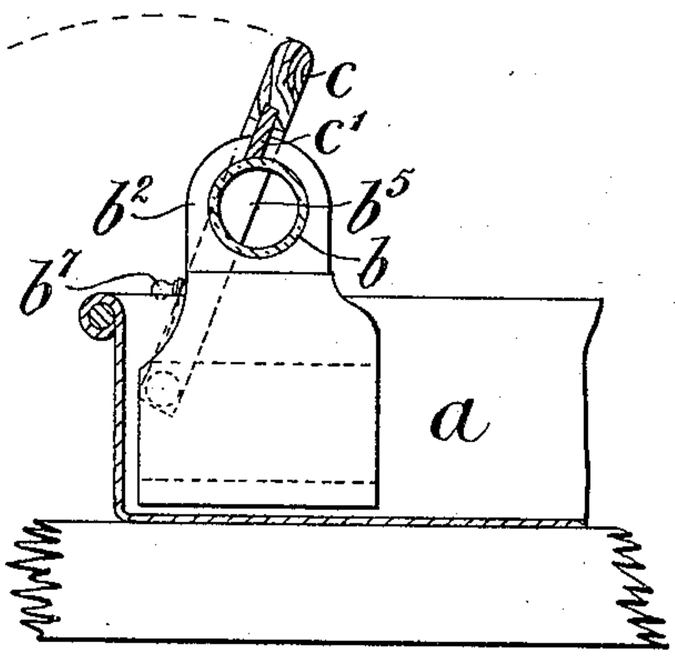

Fig. 5.

Fig. 6.

WITNESSES:

J. L. Gibson

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INVENTOR:

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No. 757,456. Patented April 19, 1904.

UNITED STATES PATENT OFFICE.

JOSEPH HALDEN, OF MANCHESTER, ENGLAND.

APPARATUS FOR REMOVING SURPLUS MOISTURE FROM PHOTOPRINTS, &c.

SPECIFICATION forming part of Letters Patent No. 757,456, dated April 19, 1904.

Application filed August 11, 1902. Serial No. 119,316. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HALDEN, a subject of the King of Great Britain and Ireland, residing at 8 Albert Square, Manchester, in the county of Lancaster, England, have invented new and useful Improvements in Apparatus for Use in Removing the Surplus Moisture from Photoprints and the Like, of which the following is a specification.

This invention relates to apparatus adapted for use in removing the surplus moisture from photoprints after their removal from the bath in which they are rinsed after having been developed and fixed. The apparatus is, however, equally applicable for use in dealing with wet sheets of other descriptions, films, and the like.

In the accompanying drawings I have illustrated apparatus adapted to the above uses and constructed according to my invention.

Figure 1 represents an elevation of a portion of a rinsing-bath provided with my improved means for removing the surplus moisture from the wet sheets. Fig. 2 is a corresponding transverse section. Figs. 3 and 4 and Figs. 5 and 6 illustrate different modes of mounting and operating the curved guide and the squeezing-bar.

In carrying out my invention I arrange over or near one edge of the bath *a* a curved guide *b*, which may be formed of glass and have a depending lip *b'*. Above and parallel with the guide is arranged a bar *c*, which may be of wood, the lower face of the bar being furnished with a strip of caoutchouc *c'*. The bar may be mounted in uprights b^2 (whereof one only is shown) and be secured in position by means of thumb-screws c^2, the said bar being so adjusted that the strip of caoutchouc *c'* bears with a light pressure upon the photoprint or other wet sheet under treatment as it passes over the curved guide *b*, the effect of such pressure being to remove the surplus water from the sheet, while the depending lip *b'* leads the said surplus water back into the bath.

In Figs. 3 and 4 the curved guide *b* is of tubular construction, the ends of which are supported by uprights b^2, whereof the bifurcated portion b^3 fits over the side of the bath *a*. The upright is held in position by means of a wedge b^4. The bar *c*, furnished with a strip *c'*, is carried by arms b^5, pivoted at b^6 in the upright b^2 and held against the guide *b* by a pivoted catch b^7. The pressure of the bar *c* may, however, be regulated by means of levers b^8, pivoted in the inner sides of the uprights b^2, as shown in Figs. 5 and 6, the lever b^8 in this instance engaging directly with the bar *c*.

For effecting the feed of the sheets the curved guide *b*, before referred to as arranged at the edge of the bath *a*, may be formed as a roller and a rotative movement imparted thereto.

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

1. The herein-described means for removing the surplus moisture from photoprints and the like, comprising a guide arranged at one side of the rinsing-bath and a bar provided with a strip of caoutchouc, the latter being arranged parallel with the said guide, the caoutchouc strip and the guide being adapted to press between them the photoprint or the like from which moisture is to be removed, substantially as set forth.

2. In apparatus for removing the surplus moisture from photoprints and the like, the combination with a guide *b* of a bar *c* having a strip of caoutchouc attached thereto and means for maintaining the said strip in light pressing contact with the photoprint or the like, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH HALDEN.

Witnesses:
J. N. GIBSON,
J. J. TATTON.