No. 728,354. PATENTED MAY 19, 1903.

V. BAUER.

APPARATUS FOR CLEANING, DRYING, AND POLISHING THE INKING ROLLERS OF PRINTING PRESSES.

APPLICATION FILED NOV. 30, 1900.

NO MODEL.

Fig. 1.

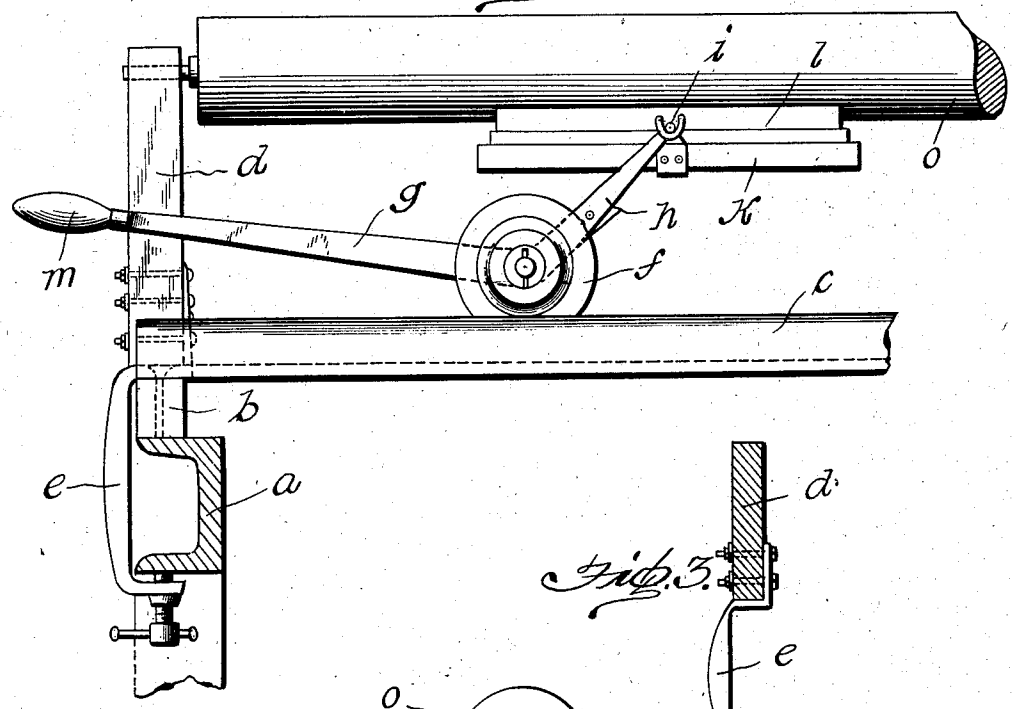
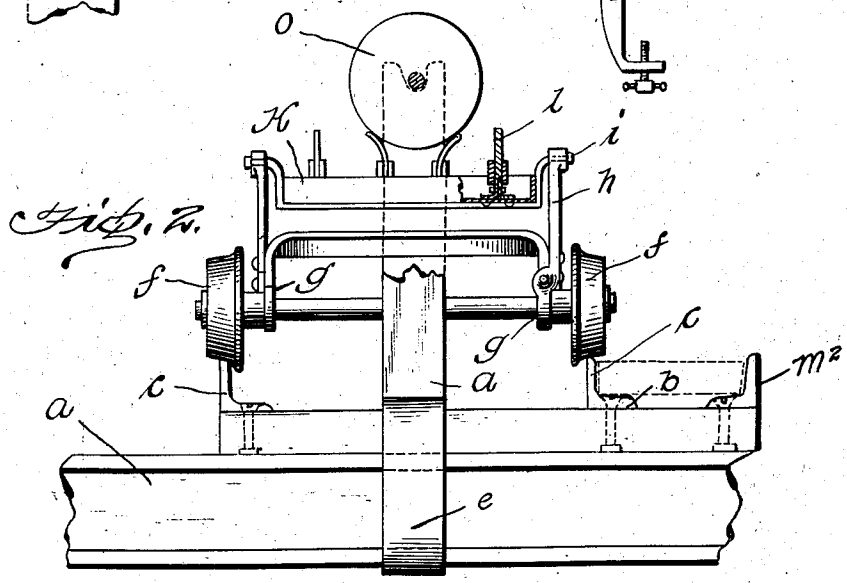


Fig. 3.

Fig. 2.



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UNITED STATES PATENT OFFICE.

VALENTIN BAUER, OF HÖCHST-ON-THE-MAIN, GERMANY.

APPARATUS FOR CLEANING, DRYING, AND POLISHING THE INKING-ROLLERS OF PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 728,354, dated May 19, 1903.

Application filed November 30, 1900. Serial No. 38,224. (No model.)

To all whom it may concern:

Be it known that I, VALENTIN BAUER, manufacturer, a subject of the King of Prussia, Emperor of Germany, residing at 8 Wingertsweg, Höchst-on-the-Main, in the Kingdom of Prussia and Empire of Germany, have invented certain new and useful Improvements in Apparatus for Cleaning, Drying, and Polishing the Inking-Rollers of Printing-Presses, of which the following is a full, clear, and exact description.

This apparatus is intended for removing the ink which adheres to printing-press rollers and for drying and polishing them afterward. The rollers are removed from their ordinary bearings and are placed in bearings which are specially provided for the purpose and attached to the printing-press in such a manner that they can be easily detached from it.

Figure 1 in the accompanying drawings is a half side view of a part of the cleaning apparatus constructed according to this invention mounted on the frame of a printing-press; Fig. 2, an end view of this apparatus, one of the bearings which serve for supporting the roller during the cleaning being broken off. Fig. 3 is a side view of one bearing-support on which the roller lies during the cleaning.

The letter *a* indicates one side of the printing-press frame. On each of the similar sides of the frame another frame is laid, which consists of the short pieces of wood *b* and the angle-iron *c*, laid transversely over the machine. To the two longitudinal pieces of wood *b* the vertical pieces *d*, serving as a bearing, are fixed by means of a screw-clamp. The screw-clamps provided at each end of the frame engage with the machine-frame in the manner shown in Fig. 1 and serve for effecting a secure fixing of the bearing-frame to the machine. The angle-irons *c*, running transversely over the machine, support a frame *g*, constructed in the manner of a two-armed lever and mounted on wheels *f*, which run on the angle-irons *c*, the shorter arms *h* of the frame supporting a box *k* by means of trunnions *i*, as seen in the drawings. In this box rubbers *l*, made of some soft material—such as leather, india-rubber, or the like—are fixed. These are intended for cleaning the rollers *o* in turn or to remove the ink from them. The rollers *o* are laid in the two wooden bearings *d* in the manner shown in Fig. 1, and thereupon the rubbers *l* are pressed against the under side of the roller *o* by depressing the part *g* of the frame by means of the handle *m*.

By moving the frame *g h* backward and forward on the track *c* and simultaneously rotating the roller *o* the adhering ink is removed from the roller. The ink enters the box *k*, from which it can be removed at intervals by suitable means.

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

1. The apparatus for cleaning the inking-rollers of printing-presses, consisting of a frame in which the rollers are mounted for cleaning having a pair of guide-rails parallel with the roller while in a cleaning position, flexible yielding rubbers mounted in a tilting frame and adapted to conform to the surface of the roller to be cleaned, a lever-frame in which the tilting frame is mounted by means of which the rubbers may be pressed up in contact with the roller, and a truck in which the lever-frame is mounted, running on the said guide-rails whereby the rubbers may be moved along the roller during the cleaning operation, as herein shown and described.

2. The combination of the longitudinal support *b;* transverse guide-rails *c;* roller-bearings *d;* wheels *f;* carriage *g*, *h*, formed of a two-armed lever-frame mounted on the wheels *f;* box *k* mounted by trunnions *i* on the arms *h* of the lever-frame, and flexible blades *l* projecting from the box *k*, in position to engage with the roller *o* and move longitudinally on the surface of the same while the roller is rotated.

In witness whereof I subscribe my signature in presence of two witnesses.

VALENTIN BAUER.

Witnesses:
JOHANN JAKOB HESELSCHWERDT,
JEAN GRUND.