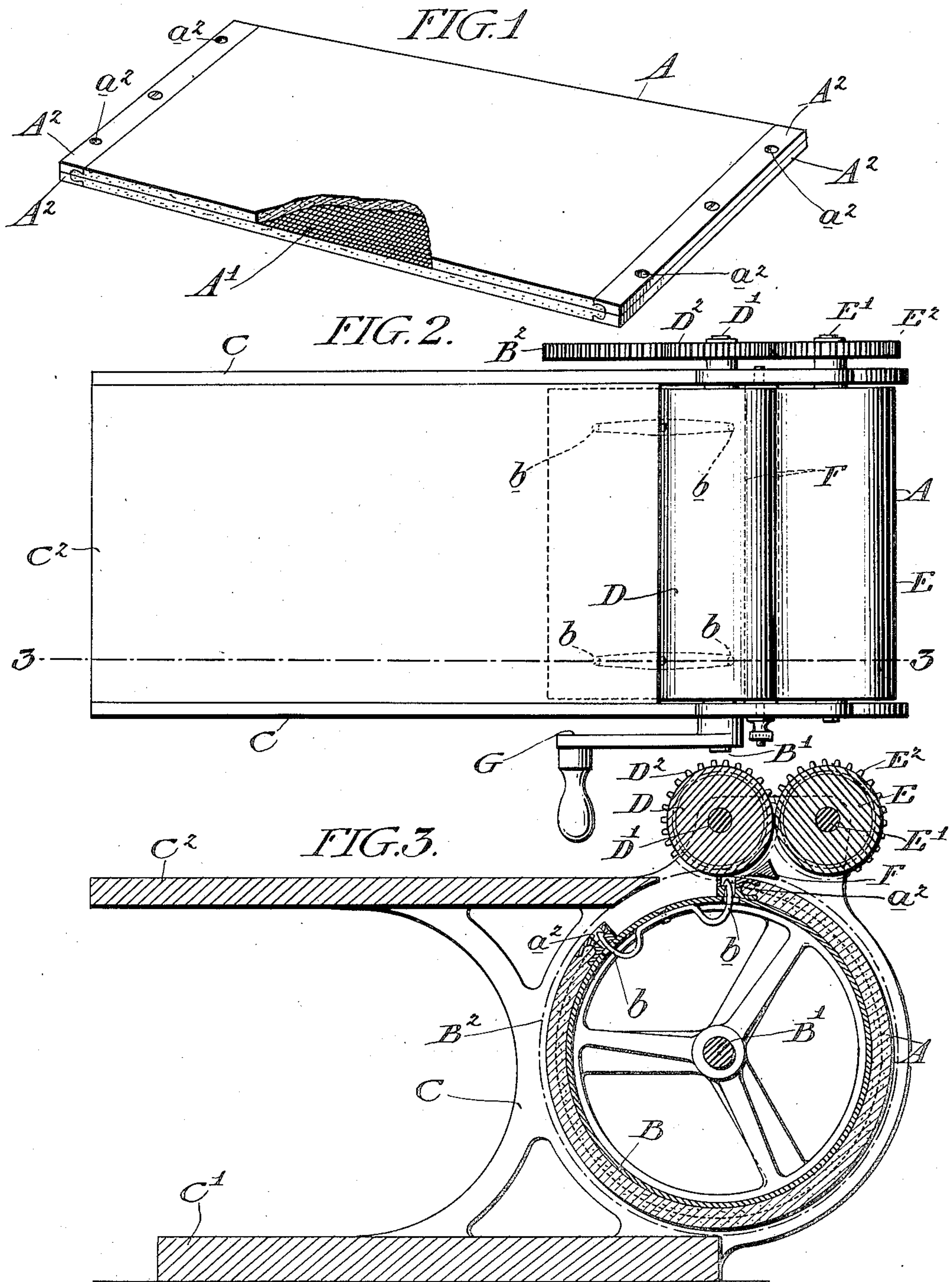


No. 822,390.

PATENTED JUNE 5, 1906.

B. M. SCHAUMAN.
COPYING MACHINE.
APPLICATION FILED DEC. 8, 1904.



WITNESSES:
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BROR MAX SCHAUMAN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
OF ONE-FOURTH TO HIMSELF, ONE-FOURTH TO MILTON K. HARR,
ONE-FOURTH TO JOSEPH F. STEVENS, AND ONE-FOURTH TO JAMES D.
SMITH, ALL OF PHILADELPHIA, PENNSYLVANIA.

COPYING-MACHINE.

No. 822,390.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed December 8, 1904. Serial No. 235,938.

To all whom it may concern:

Be it known that I, BROR MAX SCHAUMAN, a subject of the King of Sweden and Norway, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Copying-Machines, of which the following is a specification.

My invention relates to that class of copying devices employing an absorbent pad composed principally of glue, glycerin, and molasses, to which an impression from a master-copy may be transferred by causing the copy to remain for a few minutes in contact with the face of the pad, which may then be employed for reproducing a large number of copies.

My improvements embody novel features in the construction of the copying-pad, together with novel devices employed to operate the pad to produce uniform and rapid work.

The nature of my improvements will be more fully understood by reference to the accompanying drawings, in which—

Figure 1 illustrates a perspective view of the copying-pad detached from the cylinder of the machine, a portion being broken away to enable the wire-gauze support to be seen. Fig. 2 is a plan view of a copying-press embodying all of my improvements; and Fig. 3 is a longitudinal section of the same, taken on the line 3 3 of Fig. 2.

In carrying out my invention I first construct the pad A by fastening a strip of wire-gauze A' between the four end pieces A² A², which are recessed adjacent to the gauze to receive and lock in place a layer of copying material, and having fastened these to the bottom of a shallow tray I proceed to pour in the melted material which is to form the upper and lower surfaces of the pad. When cool, the surfaces are evenly trimmed off and the pad is ready for use. The machine to which this pad is especially adapted consists of a cylinder B, mounted on a shaft B', which is journaled in side frames C C, fastened at the bottom to a base C' and at the top to a table C².

The cylinder B is provided with spring-

pins b b, adapted to register with openings a² a² in the end pieces of the pad to detachably hold the pad in position around the cylinder.

Above the cylinder B are two rollers D and E, having shafts D' and E', which, like the cylinder B, are journaled in the side frames C and are geared together and to the shaft B' of the cylinder B by a train of gearing comprising spur-wheels B², D², and E², mounted, respectively, on the shafts B', D', and E'.

The roller D, which I term a "presser-roller," serves to press the sheet of paper fed from the table C² against the pad A on the cylinder, and the roller E, in conjunction with the roller D, serves to feed the sheet of paper away from the pad after it has received an impression therefrom.

In order to guide the paper into the path of the rollers D and E, I employ a switch-bar F, which may be adjusted so as to barely clear the surface of the cylinder, and thus catch and guide the paper as it passes between the roller D and the pad A.

The cylinder B and its pad is intended to be manually operated by a crank G, which is fastened to the outer end of the shaft B'.

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

1. A pad for a copying-machine comprising a strip of wire-gauze, end pieces provided with recesses to receive and hold copying material, and a layer of copying material passing through and covering both sides of the gauze, substantially as specified.

2. A copying-machine comprising a rotatable cylinder, spring-pins secured to the cylinder, a detachable pad provided at its ends with openings to engage the spring-pins; a roller in engagement with the cylinder and a second roller in engagement with the first-mentioned roller, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

BROR MAX SCHAUMAN.

Witnesses:

DAVID S. WILLIAMS,
ARNOLD KATZ.