No. 890,807. PATENTED JUNE 16, 1908.

S. T. SMITH, JR.

STENCILING MACHINE.

APPLICATION FILED MAR. 13, 1908.

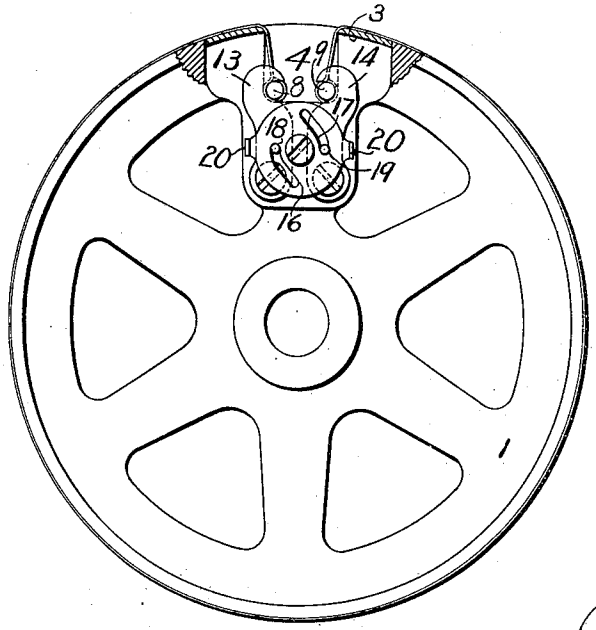


Fig. 1.

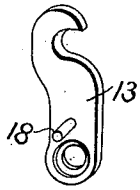


Fig. 2

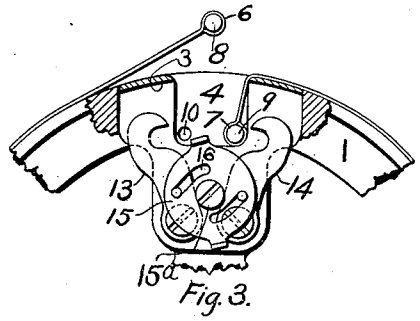


Fig. 3.

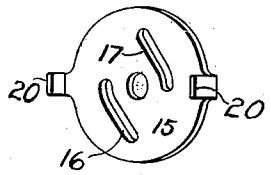


Fig. 4.

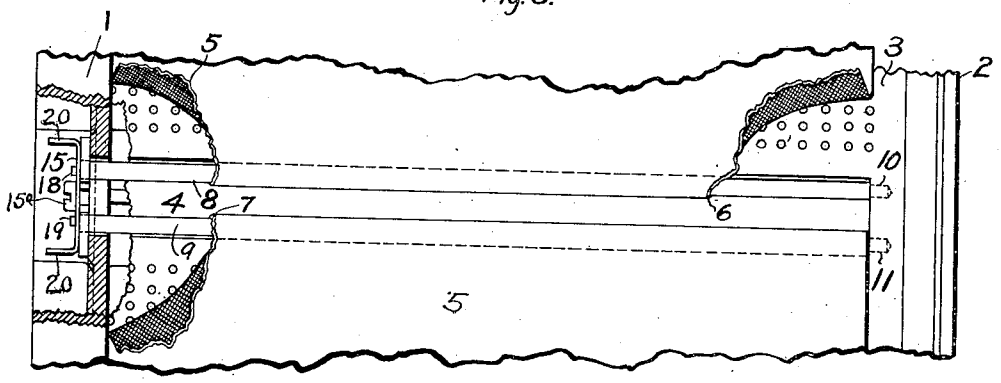


Fig. 5.

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STEPHEN T. SMITH, JR., OF STAMFORD, CONNECTICUT, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

STENCILING-MACHINE.

No. 890,807. Specification of Letters Patent. Patented June 16, 1908.

Application filed March 13, 1908. Serial No. 420,882.

To all whom it may concern:

Be it known that I, STEPHEN T. SMITH, Jr., a citizen of the United States, residing in Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Stenciling-Machines, of which the following is a specification.

This invention relates to stenciling machines, in which an ink pad is wrapped around a perforated cylinder, and a waxed stencil sheet secured thereon. The ink is applied to the inside of the drum and oozes through the perforations to saturate the pad, and the sheets to be stenciled are fed between a pressure roll and the cylinder, the pressure of the roll squeezing the ink through the stencil onto the sheets.

The object of the invention is to provide simple, inexpensive and efficient means for releasably securing and locking the ink pad to the cylinder.

The ends of the pad are looped, and a pair of rods passed through the loops, and the rods at their ends engage one head of the cylinder, the other ends being releasably secured by means of latches pivoted to the opposite head of the cylinder. I pivot to said head a disk having cam-slots to engage pins projecting from said latches. By giving the disk a slight rotation in one direction the latches are thrown toward each other to catch over the rods and lock them in effective positions.

In the accompanying drawings, Figure 1 is an end elevation of a stenciling machine cylinder with my improvements applied thereto, and showing the pad-securing latches locked. Fig. 2 is a perspective of one of the latches. Fig. 3 is a fragmentary view similar to Fig. 1, showing the latches released. Fig. 4 is a perspective of a latch-controlling finger cam-disk. Fig. 5 is a fragmentary plan of the cylinder.

The cylinder comprises a pair of heads 1, 2, connected by a sheet of perforated metal 3. A channel 4 runs along the cylinder between its heads. An ink pad 5, having looped ends 6, 7, is wrapped around the cylinder, and is secured by means of a pair of rods 8, 9, passed through the loops, and engaging sockets 10, 11 in one head of the drum, as 2. The other ends of the rods are releasably secured by means of latches 13, 14 pivoted to the other head 1 of the drum. Also pivoted at 15^a to said head 1 is a disk 15, having opposite cam-slots 16, 17 to engage pins 18, 19 projecting from the latches 13, 14. The disk may also be provided with finger-pieces 20, 20.

The two rods 8 and 9 with the looped pad ends are pressed down into the channel 4, and a rotation of the disk 15 throws the latches towards each other, to catch over the rods, and pulls them with the looped ends of the pad down to or towards the bottom of the channel 4. To remove the pad from the drum, the disk is given a rotation to the right, throwing the latches out of engagement with the rods, and releasing them.

The pivot of the disk 15 is between the latches, and the cam-slots are formed to throw the latches simultaneously into engagement with the rods, and to lock them there.

Having thus described my invention, I claim:

1. In a stenciling machine, the combination with a cylinder and an ink pad extending around the same, of a pair of rods upon which the ends of the pad are caught, for securing the pad to the cylinder, the rods at one end engaging a head of the cylinder and the other ends releasably secured by a pair of latches pivoted to the other head of the cylinder, and a single device operatively connected to both latches for simultaneously throwing them into or out of engagement with the rods.

2. In a stenciling machine, the combination with a cylinder and an ink pad and a pair of rods to hold the pad, said rods at one end engaging in a head of the cylinder, and latches pivoted to the other end of the cylinder, a disk to cause said latches to catch over the rods and lock them, said disk pivoted to the head of the cylinder and having cam-slots to engage projections on the latches.

3. In a stenciling machine, the combination with a cylinder and an ink pad and a pair of rods to hold the pad, said rods at one end engaging in a head of the cylinder, and latches pivoted to the other end of the cylinder, a disk to cause said latches to catch over the rods and lock them, said disk pivoted to the head of the cylinder and having cam-slots to engage projections on the latches; said cam-slots constructed to lock the latches and rods in effective positions.

4. In a stenciling machine having a perforated cylinder and a channel running the

length thereof, the combination of an ink pad extending around the cylinder, rods to hold the ends of the pad, the rods at one end caught upon a head of the cylinder, and the other end of the rods releasably secured by hooks pivoted to the other head of the cylinder, said rods lying in the channel below the printing surface of the cylinder, and a disk for causing said latches to catch over the rods and lock them, said disk pivoted between the two latches and having cam-slots in which engage projections upon the latches.

5. In a stenciling machine having a cylinder and an ink pad wrapped about the same, the combination of rods or bars to secure the ends of the ink pad, latches to secure said rods or bars, and a cam device provided with a finger-piece and having means to operate said latches simultaneously.

6. In a stenciling machine having a cylinder and an ink pad wrapped about the same, the combination of rods or bars to secure the ends of the ink pad, latches to secure said rods or bars, and a cam device provided with a finger-piece and having means to operate said latches simultaneously and lock them in rod-securing positions.

7. In a stenciling machine having a cylinder and an ink pad wrapped about the same, the combination of rods or bars to secure the ends of the ink pad, and a finger-piece mounted upon the cylinder and having means to lock said rods simultaneously in pad-securing positions.

8. In a stenciling machine having a cylinder and an ink pad wrapped about the same, the combination of rods or bars to secure the ends of the ink pad, a part movably mounted upon the cylinder and having a pair of cams, and means for enabling said cams to lock the rods simultaneously in pad-securing positions.

9. In a stenciling machine having a cylinder and an ink pad wrapped about the same, the combination of rods or bars to secure the ends of the ink pad, a locking member pivoted upon the cylinder and provided with a finger-piece and also having cams, and latches operated by the cams and constructed to catch over the rods to lock them in effective positions.

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