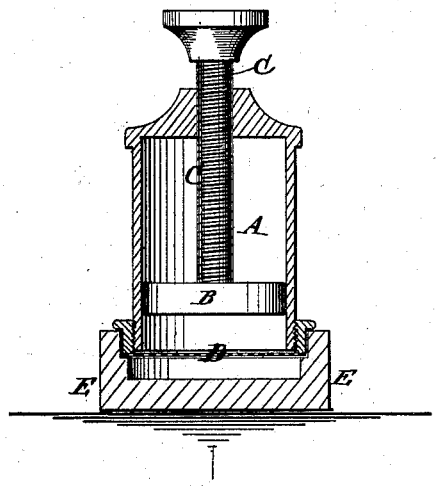
J. G. KURTZ.

INKING APPARATUS.

No. 191,864. Patented June 12, 1877.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN G. KURTZ, OF MILTON, PENNSYLVANIA.

IMPROVEMENT IN INKING APPARATUS.

Specification forming part of Letters Patent No. **191,864**, dated June 12, 1877; application filed April 16, 1877.

To all whom it may concern:

Be it known that I, JOHN G. KURTZ, of Milton, in the county of Northumberland and State of Pennsylvania, have invented a new and Improved Printing-Ink Fountain and Feeder, of which the following is a specification:

The accompanying drawing represents a vertical central section of my improved printing-ink fountain and feeder.

The object of this invention is to provide for printing-offices, railroad and post offices, and for all departments where stamping is done by means of printing-ink, an improved fountain and feeder, by which the ink is supplied in any desired quantity in superior manner, retaining the bad ink or thick parts in the fountain, and preserving the same, after the roller or pad is supplied, in air-tight manner, with the feeding cloth or screen in moist and soft state.

The invention consists of a fountain for printing-ink having a tightly-fitting piston fed forward by a screw-rod, so as to force the ink through a bottom feeding cloth or screen, the same being placed, after use, into an air-tight seat-plate, holding water to keep the feeding-cloth moist.

In the drawing, A represents a cylindrical fountain, of any suitable size and material, and B a piston or pressure-plate that is moved forward or back by a screw-rod, C, turning centrally in the upper end or head of the fountain-cylinder. To the lower open end of the ink-fountain A is applied, by a screw-collar or otherwise, a feeding cloth or screen, D, of linen, cotton, woolen, hair, wire-gauze, perforated plate, or other material, through which the printing-ink is forced directly from the fountain by the tightly-fitting piston B, which is screwed downward in the fountain-cylinder. The feeding cloth or screen D serves to strain dirty or skinny ink, so that only good ink of even flow is supplied to the rollers, pads, &c. By raising the piston the ink is drawn up or lifted by the suction of the same so as to clear the feeding cloth or screen when not in use. The fountain is then placed on a seat or base-plate, E, that fits hermetically thereto, and is provided with a dishing of suitable depth to hold a sufficient quantity of water or other liquid, by which the feeding-cloth is kept moist and the hardening of the ink prevented.

Whenever the fountain is required to feed the ink the piston is screwed down, the turning motion exerting a revolving tendency to the mass, so as to constantly change the position of the same, and allow the good and serviceable portions of the ink to sink toward the feeding-cloth and be supplied through the same in uniform manner to the rollers, pads, or other devices used for stamping purposes.

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

A printing-ink fountain or feeder, composed of a fountain with movable interior piston or pressure plate, bottom feeding cloth or screen, and hermetically-sealing base-plate, substantially in the manner and for the purpose set forth.

JOHN G. KURTZ.

Witnesses:
THOS. J. KISTER,
JNO. MILLER.