

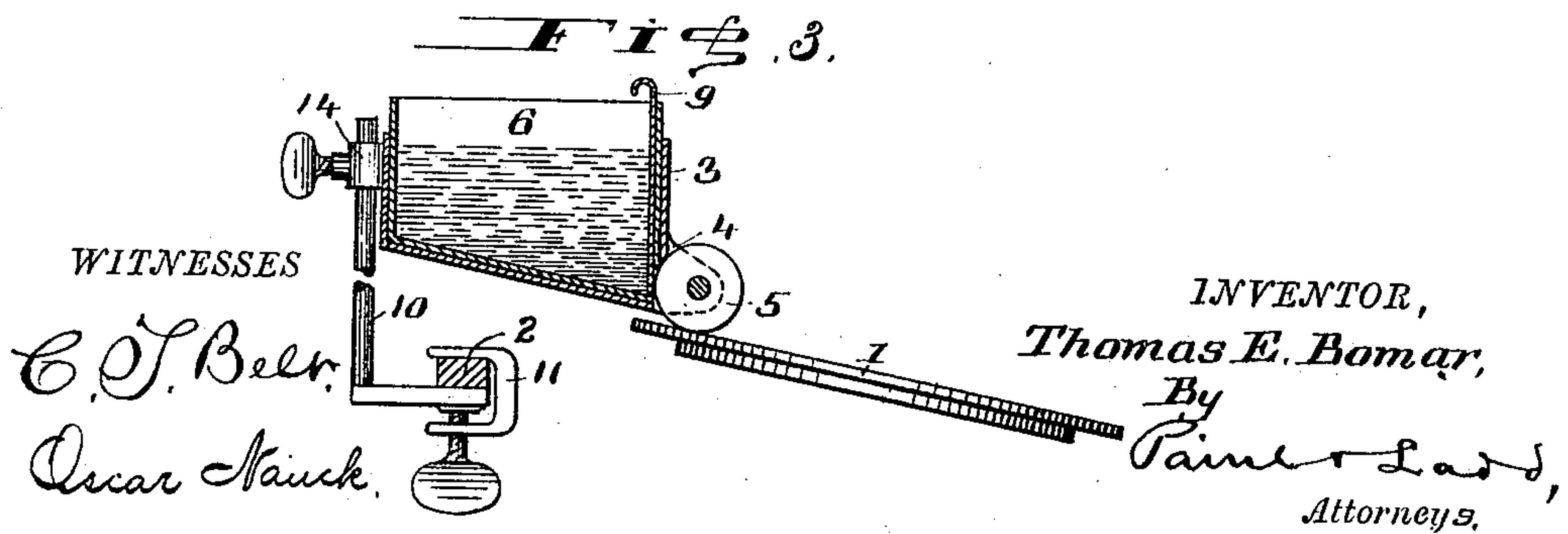
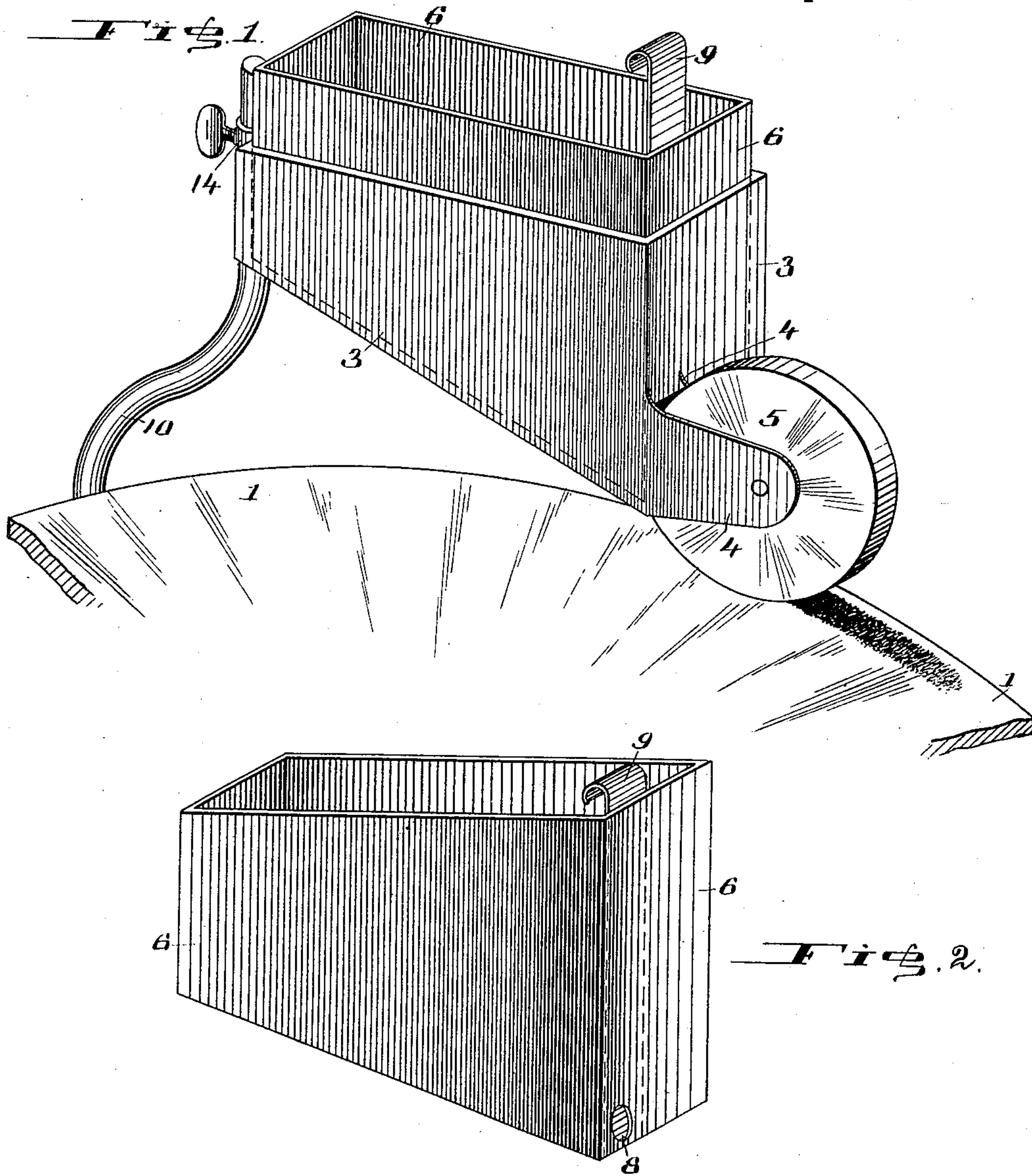
(No Model.)

T. E. BOMAR.

INK FOUNTAIN FOR PRINTING MACHINES.

No. 326,938.

Patented Sept. 29, 1885.



UNITED STATES PATENT OFFICE.

THOMAS E. BOMAR, OF MCKINNEY, TEXAS.

INK-FOUNTAIN FOR PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 326,938, dated September 29, 1885.

Application filed July 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. BOMAR, a citizen of the United States, residing at McKinney, in the county of Collin and State of Texas, have invented certain new and useful Improvements in Ink-Fountains for Printing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved ink-fountain for printing-presses, which is specially adapted for that class of presses having a rotary inking table or disk, as in the type, so called, the "Gordon" press.

The object of the invention is to provide simple and effective means for permitting different-colored inks to be readily and conveniently used in the press without removing the inking devices that are carried by or supported upon the press-frame in co-operative relation to the inking-table or revolving disk.

To these ends the invention consists in a detachable or removable ink holder or fountain that is designed to be placed into a shell-shaped frame having a discharge-aperture at its end and a distributing-roller located in front thereof. The shell-shaped frame is carried by a vertical arm clamped to the framing of the press, and the shell-shaped frame is further provided with a socket, through which the vertical arm passes, and with a thumb-screw for adjusting its position with reference to the inking-table. The removable ink-holder has a discharge-aperture in its end wall, which registers with the opening in the shell-shaped frame, and a cut-off gate or plate is provided for regulating the size of the aperture in the ink-fountain or closing the same.

A suitable number of detachable ink-fountains are designed to form the complement of a press, so that the color of the ink used can be readily changed by withdrawing the fountain from the shell-shaped frame, cleaning the delivery-roller and the disk or table upon which it travels, and substituting another ink-fountain containing a different-colored ink.

In the drawings, Figure 1 is a perspective view of an ink-fountain constructed according to my invention. Fig. 2 is a detail view of the removable ink reservoir or holder. Fig. 3 is a vertical sectional view of the ink-fountain, showing the arm and clamp that serve to support the ink fountain above the rotary ink-table.

The reference-numeral 1 designates the inclined rotary inking table or disk of a Gordon printing-press, and 2 is part of the adjoining frame-work. Above said inking table is arranged a shell-shaped frame, 3, that is generally made of a single piece of cast-iron, and has an inclined bottom and vertical side and end walls. At the front or highest portion of said frame 3 are formed brackets or arms 4, which receive the horizontal journals or shaft of a roller or disk, 5, that serves to distribute the ink upon the inking-table 1. This roller is made of hard wood or rubber, and has a rubber tire. An aperture is made in the front wall of the frame 3 for the discharge of the ink onto the periphery of the roller 5. Inside the frame 3, and partly inclosed by the same, is arranged the ink reservoir or holder 6, which conforms in shape with said frame—that is, it has an inclined bottom and vertical side and end wall. This ink-reservoir may be made of sheet or other metal, porcelain, glass, or other suitable material, and it has an aperture, 8, in its front wall, that coincides or registers with the opening in the front wall of the frame 3.

A vertically-sliding gate, 9, fitted in suitable guides on the inner face of the front wall of the ink-reservoir, serves as a medium for varying the size of the discharge-opening, thus regulating the outflow of the ink; or said gate, when pushed down to its full extent, closes said opening and shuts off the flow of ink. It should be observed that the ink-reservoir fits closely into the frame 3 in such a manner as to require no fastening devices, and it can be readily inserted or removed, as may be desired, and this without disturbing the other members of the ink-fountain.

An arm, 10, rising from the frame-work adjoining the inking-table, and attached thereto by a suitable screw-clamp, 11, is fitted at its upper end into a socket or apertured exten-

sion, 14, on the rear wall of the frame 3. A set-screw passing through said socket and bearing upon the vertical arm 10 serves as a medium for adjustably holding the ink-fountain in position—that is, said fountain can be raised and lowered to adapt it for use on different-sized presses. It will readily be manifest without further description that a detachable or independent ink reservoir or holder applied or used as above described is simple in construction, convenient in use, and is an important adjunct of a printing-press where the color of the ink is frequently changed.

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

The combination of the shell-shaped frame having an inclined bottom, a hole in the lower

part of the front end wall, and a socket provided with a thumb-screw, a vertical arm passing through the said socket and provided with a clamp at its lower end, a roller for distributing ink, journaled at the front of the shell and vertically adjustable therewith, and the removable reservoir having a gate, an inclined bottom, and an opening corresponding with the hole in the shell, substantially as shown and described, and for the purpose set forth.

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

THOS. E. BOMAR.

Witnesses:

O. M. GODDARD,
WM. C. REAVES.