

No. 812,914.

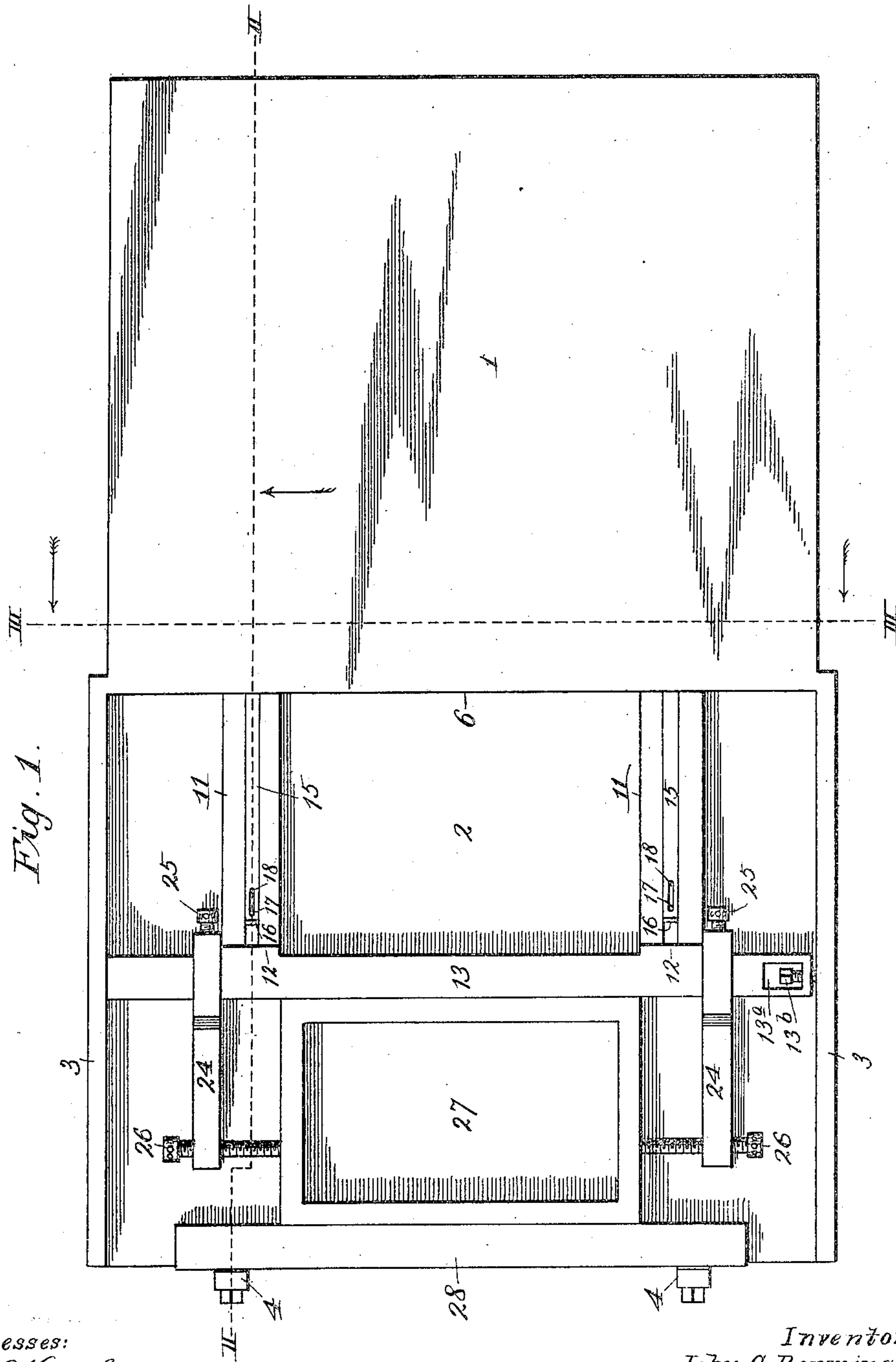
PATENTED FEB. 20, 1906.

J. C. BERMINGHAM.

BED LOCK FOR INK TABLE DISTRIBUTION PRESSES.

APPLICATION FILED MAY 15, 1905.

2 SHEETS—SHEET 1.



Witnesses:

R. Hamilton.

J. Moore.

Inventor

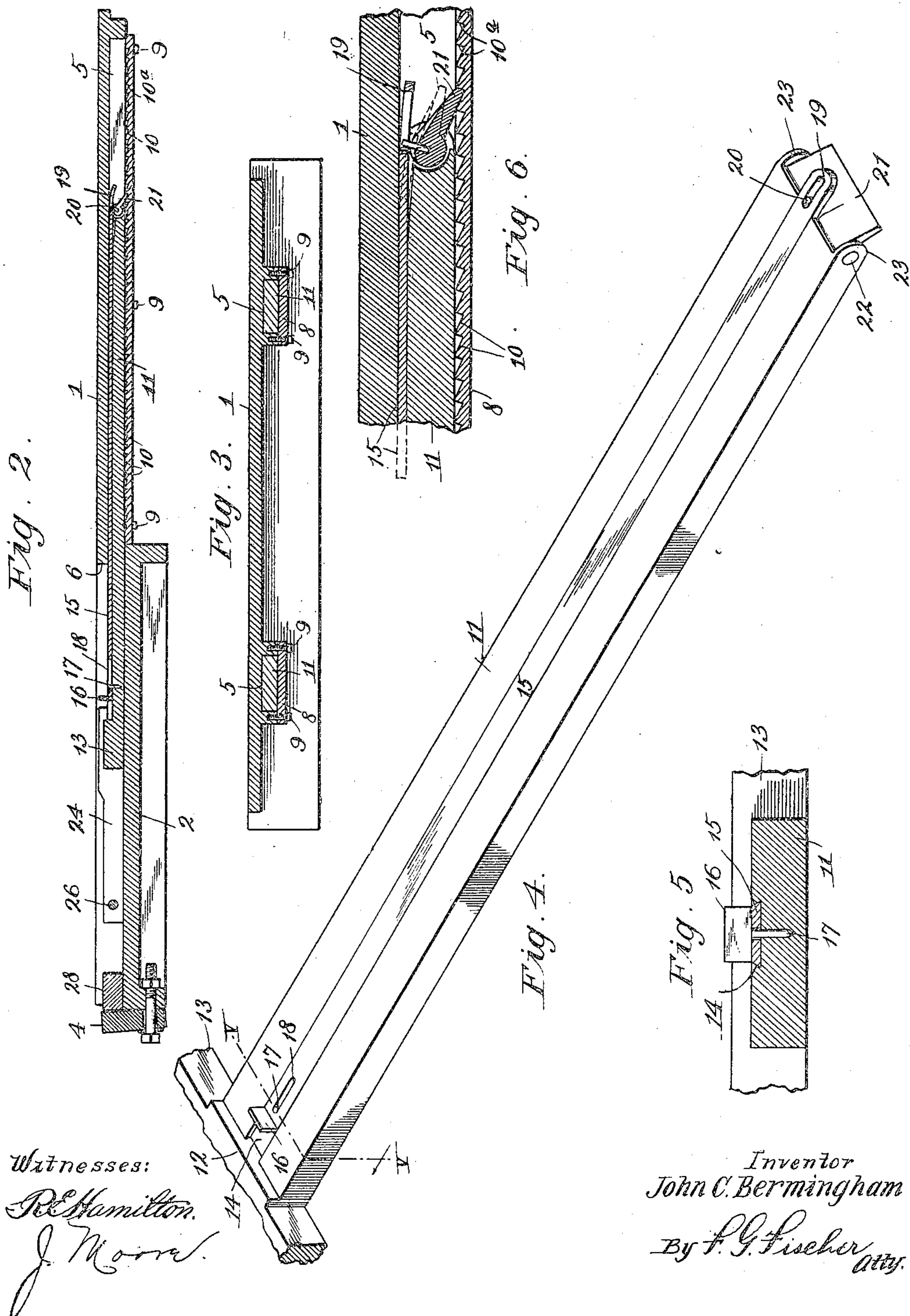
John C. Birmingham

By *F. G. Fischer* atty.

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UNITED STATES PATENT OFFICE.

JOHN C. BERMINGHAM, OF KANSAS CITY, MISSOURI.

BED-LOCK FOR INK-TABLE DISTRIBUTION-PRESSES.

No. 812,914.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed May 15, 1905. Serial No. 260,598.

To all whom it may concern:

Be it known that I, JOHN C. BERMINGHAM, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Bed-Locks for Ink-Table Distribution-Presses, of which the following is a specification.

My invention relates to improvements in bed-locks for ink-table distribution-presses and is an improvement over my application filed September 6, 1904, Serial No. 223,353.

The present invention embraces all of the advantages set forth in the above-mentioned application with the addition of quicker and more accurate adjustment of the extension-bars, which in the present instance are connected together so they will be adjusted simultaneously. A further advantage is that the loose keys formerly employed in locking the extension-bars from backward movement (and which were liable to become lost) have been dispensed with, means carried by the bars being substituted therefor which automatically lock the bars from backward movement, and thus save the time formerly required to find and place the keys in position.

The invention further consists in the novel construction, combination, and arrangement of parts hereinafter described, and pointed out in the claims, and in order that it may be fully understood reference will now be made to the accompanying drawings, in which—

Figure 1 represents a plan view of a type-bed and ink-distribution table provided with my improvements. Fig. 2 is a vertical longitudinal section of same, taken on line II II of Fig. 1. Fig. 3 is a transverse section of the ink-distribution table, taken on line III III of Fig. 1. Fig. 4 is a detail perspective view of one of the extension-bars employed in carrying out my invention. Fig. 5 is a transverse section of same, taken on line V V of Fig. 4. Fig. 6 is a broken vertical longitudinal section of the ink-distribution table and one of the extension-bars adjustably located in the pocket thereof.

In said drawings, 1 designates the ink-distribution table.

2 is a type-bed provided with the customary flanges 3, and 4 designates a pair of clamps secured to the forward end of the type-bed.

5 designates a pair of pockets located in the ink-distribution table and communicat-

ing with the front wall 6 of the latter. Said pockets are formed by depending ribs 7, integral with the under side of the table, and bottom plates 8, secured to the under sides of said ribs by machine-screws 9. The upper surfaces of plates 8 are provided throughout their lengths with transverse ratchet-teeth 10.

11 designates a pair of extension-bars adjustably arranged in pockets 5 and provided at their forward portions with upwardly-projecting shoulders 12, which limit the backward movement of the extension-bars by contacting with wall 6 and preventing a transverse bar 13, formed integral with the forward portions of said shoulders, from contacting with wall 6, so that a narrow space will be left between said wall and transverse bar 13 in which to insert the finger-tips when it is desired to draw the extension-bars forward. Bars 11 are provided at their upper surfaces with longitudinal dovetail grooves 14 for the reception of snugly-fitting sliding bars 15, having upturned forward ends 16, which serve as handles in sliding the bars backward and forward, which movements are limited by pins 17, projecting upwardly from the grooves, and longitudinal slots 18 in the sliding bars, through which said pins extend.

The rear ends of bars 15 curve downwardly and have longitudinal slots 19 for the reception of pins 20, projecting upwardly from gravity-pawls 21. Pawls 21 are arranged to engage any of the ratchet-teeth, the abrupt front sides 10^a of which latter afford reliable bearing-points for the lower ends of said pawls.

22 designates trunnions integral with the opposite sides of the pawls and pivotally arranged in ears 23, formed at the rear ends of the extension-bars.

Bar 13 is provided at one end with an opening 13^a for the reception of a set-screw 13^b, adapted to engage one of flanges 3 when it is desired to secure said bar from longitudinal movement.

24 designates a pair of side lock-clamps adjustably and detachably secured upon bar 13 with set-screws 25, carried at their rear terminals.

26 designates adjusting-screws carried at the forward ends of the lock-clamps for the purpose of engaging two walls of a chase 27.

In practice the chase is placed at the desired point upon the type-bed. Transverse bar 13 is then grasped and drawn forward

into contact with the rear wall of said chase. As the extension-bars 15 are drawn forwardly with the transverse bar the gravity-pawls will engage the abrupt sides of the ratchet-teeth and prevent accidental backward movement of said bars after the transverse bar has been drawn into contact with the chase. One or more filling-strips 28 are then placed between the front wall of the chase and the rear sides of clamps 4, which latter are then tightened to prevent said chase from shifting either backwardly or forwardly. The side lock-clamps are then slid toward the adjacent sides of the chase, which latter is secured from shifting sidewise by adjusting-screws 26, which are screwed into contact therewith. When it is desired to remove the chase from the type-bed, screws 26 are unscrewed from contact with said chase, and screw 13^b is disengaged from the adjacent rib 3. Handles 16 are then grasped and drawn forwardly, moving bars 15 therewith, so that the rear ends of slots 19 will engage and move pins 20 forwardly until the pawls are disengaged from the ratchet-teeth. The extension-bars may then be pushed backwardly in the pockets until their shoulders contact with walls 6.

When large chases are employed which cover nearly the entire surface of the type-bed, it may be necessary to dispense with the use of bar 13, so that the ends of the extension-bars may be drawn directly into contact with the chase. It may also be found desirable in such instances to employ three or more extension-bars to resist the strain imposed thereon by a large heavy chase, so I of course reserve the right to make the above changes and such others as fall within the spirit and scope of the appended claims.

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

1. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets provided with ratchet-teeth, extension-bars slidably arranged in the pockets adapted to be slid into contact with the chase, and means carried by the extension-bars for automatically engaging the ratchet-teeth to prevent accidental backward movement of said extension-bars.

2. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets provided with ratchet-teeth, extension-bars slidably arranged in the pockets adapted to be slid into contact with the chase,

ratchet-teeth-engaging devices carried by the extension-bars, and means for releasing said engaging devices.

3. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets provided with ratchet-teeth, extension-bars slidably arranged in the pockets adapted to be slid into contact with the chase, pawls pivotally secured to said extension-bars for engaging the ratchet-teeth, and means for releasing said pawls.

4. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets provided with ratchet-teeth, extension-bars slidably arranged in the pockets adapted to be slid into contact with the chase, ratchet-teeth-engaging devices carried by said extension-bars, and means for releasing said engaging devices from the ratchet-teeth.

5. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets provided with ratchet-teeth, extension-bars slidably arranged in the pockets adapted to be slid into contact with the chase and provided with dovetail grooves, sliding bars snugly fitting in said grooves, ears on the rear ends of the extension-bars, and gravity-pawls engaged by the sliding bars provided with trunnions pivoted in the ears.

6. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets, extension-bars slidably arranged in the pockets, means for preventing accidental backward movement of said extension-bars, and a transverse bar formed integral with the extension-bars adapted to be drawn into contact with the chase.

7. In an apparatus of the character described, the combination with a type-bed and a chase, of an ink-distribution table having pockets, extension-bars slidably arranged in the pockets, means for preventing accidental backward movement of said extension-bars, a transverse bar formed integral with the extension-bars adapted to be drawn into contact with the chase, and side lock-clamps adjustably and detachably mounted upon said transverse bar.

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

JOHN C. BERMINGHAM.

Witnesses:

J. W. BOLING,
F. G. FISCHER.