

J. CHANDLER.
 REPLENISHING DEVICE.
 APPLICATION FILED JULY 16, 1908.

938,557.

Patented Nov. 2, 1909.

Fig. 1

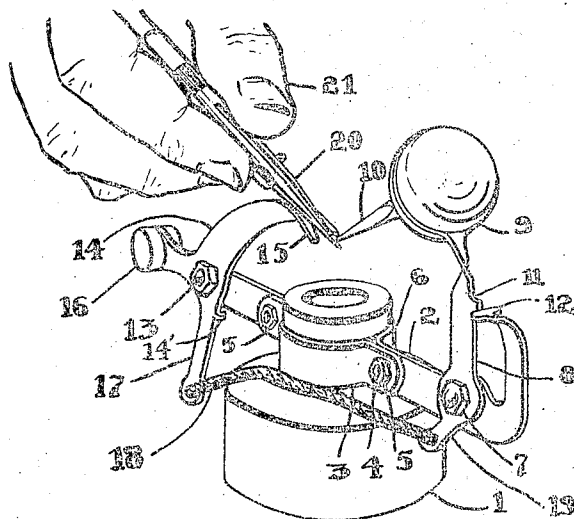


Fig. 2

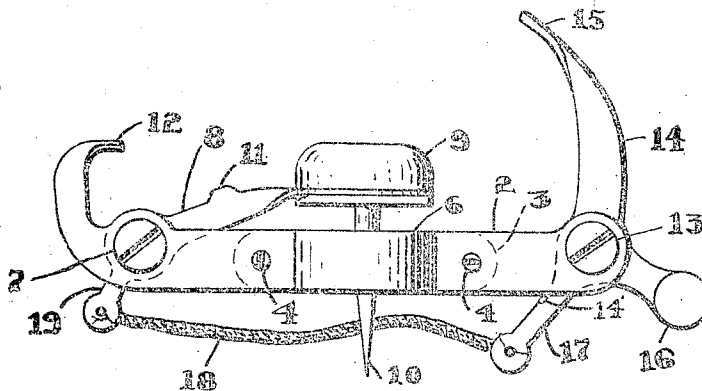
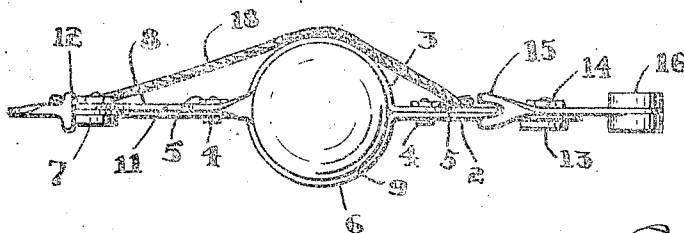


Fig. 3



WITNESSES

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JERMAIN CHANDLER, OF TOLEDO, OHIO.

REPLENISHING DEVICE.

938,557.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed July 16, 1908. Serial No. 443,785.

To all whom it may concern:

Be it known that I, JERMAIN CHANDLER, a citizen of the United States, residing at Toledo, Lucas county, Ohio, have invented new and useful Replenishing Devices, of which the following is a specification.

This invention relates to a replenishing device for readily supplying or feeding material as from a reservoir to a tool for distribution.

This invention has utility when adapted to transfer pigment, and especially in constructions for inking ruling pens, wherein the operation may be most rapidly and accurately performed with the pen alone when held as usual in the hand for drawing.

Referring to the drawings: Figure 1 is a perspective view of an embodiment of the invention in a ruling pen inker, the device being in the position of inking a pen as viewed by one looking toward the user thereof; Fig. 2 is a side elevation of the device, apart from the reservoir or ink bottle, with the parts in position assumed when the bottle would be closed; and Fig. 3 is a plan view of the mechanism shown in Fig. 2.

The reservoir is here shown as a bottle 1, having a neck provided with an opening, and about this neck is clamped the replenisher.

The replenisher comprises, in the disclosed embodiment of the invention the support or frame member 2. Medially of this frame 2 is disposed the strap or clamp element 3 of semicircular form, which is drawn by bolts 4 having nuts 5 into position adjacent a similarly formed portion 6 of support 2, so that the parts 3 and 6 coact as a clamp to closely engage the neck of the bottle 1 and firmly hold the replenisher in proper relation as to the opening. On one extension of the frame 2 from the clamp is pivot 7 for lever member 8 which carries closure 9 for the bottle opening. From this closure extends the supply carrying member or quill 10, which is partially immersed in the substance to be fed from the reservoir, when the closure is covering the opening. The pivoted lever 8 is provided with a contact lug 11, which when the closure is withdrawn abuts stop 12 on the frame 2, so limiting the travel of the lever 8 that when free it will normally reseal the closure over the opening to keep the bottle or reservoir closed. On the extension of frame 2 remote from lever 8 is pivot 13 for second lever member

14, which has an upper forked extremity or guide 15. While the weighting of lever 8 is such that it will normally rest in down position, this lever 14 normally rests in up position, herein disclosed as brought about by the weighted arm portion 16. Up travel is limited by stop 14'. The lever 14 is provided with arm 17 having flexible connection 18 with an arm 19 of opposing lever 8.

Operation: A ruling pen 20, herein shown as held in a right hand 21 as in ordinary position for use, is placed in the guide 15 where it is slidably poised. By exerting slight pressure through the pen it is most readily steadied, while the force thus exerted is transmitted to move the guide 15 toward the opening of the reservoir, and simultaneously through the operating connections between levers 14 and 8, the closure 9 is removed and the quill 10 comes into proximity with the line of travel of the guided pen, so that the quill may be drawn through the pen or the pen drawn about the quill until inked as desired. Then removing the pen and proceeding with work without further attention to the ink supply until next desired, permits the parts of the replenisher to assume their normal position of rest with the closure 9 at once effective to shut the reservoir opening and with the lever 14 in up position.

In assembling, the closure is placed in position over the opening, and when so held the clamp is drawn up to hold the replenisher or feed device in such position. By the control of lever 14 from the pen, the quill 10 may be held still while the pen is slid through the guide 15, or the quill may be moved through the pen. Lever 14 is thus an actuator for the closure and quill. In assuming idle position, closure 9 pulling lever 8 down, may withdraw lever 14, but the addition of weight 16 renders more stable the position of rest of this lever 14 when retracted.

The device, though simple in construction, is most durable, and possesses especial value owing to the certainty with which it may be operated with the writing tool held as in drawing, thus avoiding delay incident to changing about of tool in the hand, as well as permitting the other hand to hold the work during inking.

What is claimed and it is desired to secure by Letters Patent is:

1. An inking device comprising a pen

guiding member with which a pen may slid-
ingly coact, an ink carrying member mov-
able toward the pen guiding member, and
connecting means extending from the guid-
ing member to the carrying member to move
the carrying member.

2. An inking device comprising a pen
guiding member with which a pen may slid-
ingly coact, an ink withdrawing member with
which the sliding pen may engage to receive
ink, said withdrawing member movable rel-
atively to the guiding member, and connect-
ing means between the members.

3. A feed device comprising a guide mem-
ber for the article to be fed, said member
actuatable by the article, a pivoted supply
withdrawing member for the article rel-
atively to which withdrawing member the
article may slide through the guide member
to engage and remove from the withdrawing
member a supply for the article, and con-
necting means extending between the mem-
bers said actuation of the guide member ef-
fective through the connecting means to op-
erate the withdrawing member.

4. A replenisher comprising a pivoted
guide for the article to be fed with which
guide the article may slidably coact, a piv-
oted supply withdrawer movable to feed the
article as the article is slid relatively to the
travel of the withdrawer, and connecting
means engaging the guide and extending to
the withdrawer.

5. A replenisher comprising a movable

supply withdrawer, a pivoted opposing
actuator therefor, and connecting means ex-
tending from the actuator to the with-
drawer, said actuator having a guide, where-
by an article to be supplied may slidably co-
act with the guide of the actuator to take a
supply from the withdrawer.

6. The combination with a reservoir hav-
ing an opening, of a closure for the reservoir
opening, said closure being movable and
having a supply carrier, an article guide
movable toward the carrier, and connecting
means extending from the closure to the
guide.

7. The combination with a guide, of a rel-
atively movable quill actuatable from the
guide, and connecting means extending
from the guide to the quill to move the quill.

8. The combination of a pivoted guide
having an arm, a pivoted quill having an
arm, and connecting means uniting the arms
to cause simultaneous travel of the guide
and quill.

9. An inking device comprising a frame,
a pen guiding member, an ink carrying
member, said members carried by the frame,
and an operative connecting means from the
guide member to the carrying member.

In testimony whereof I hereunto set my
hand in the presence of two witnesses.

JERMAIN CHANDLER.

Witnesses:

GEO. E. KIRK,
C. H. RAUCH.