Jan. 15, 1929. 1,699,505

J. P. NISSEN, JR

PRINTING PRESS

Filed Sept. 29, 1926 2 Sheets-Sheet 1

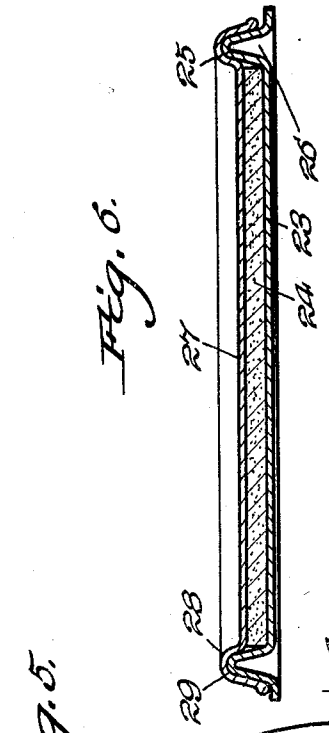


Fig. 6.

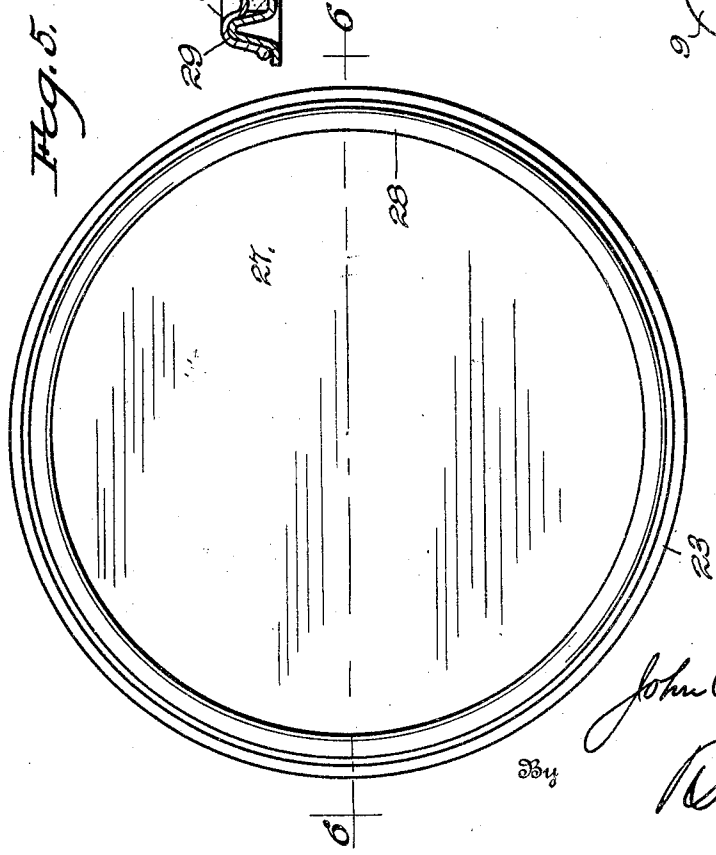


Fig. 5.

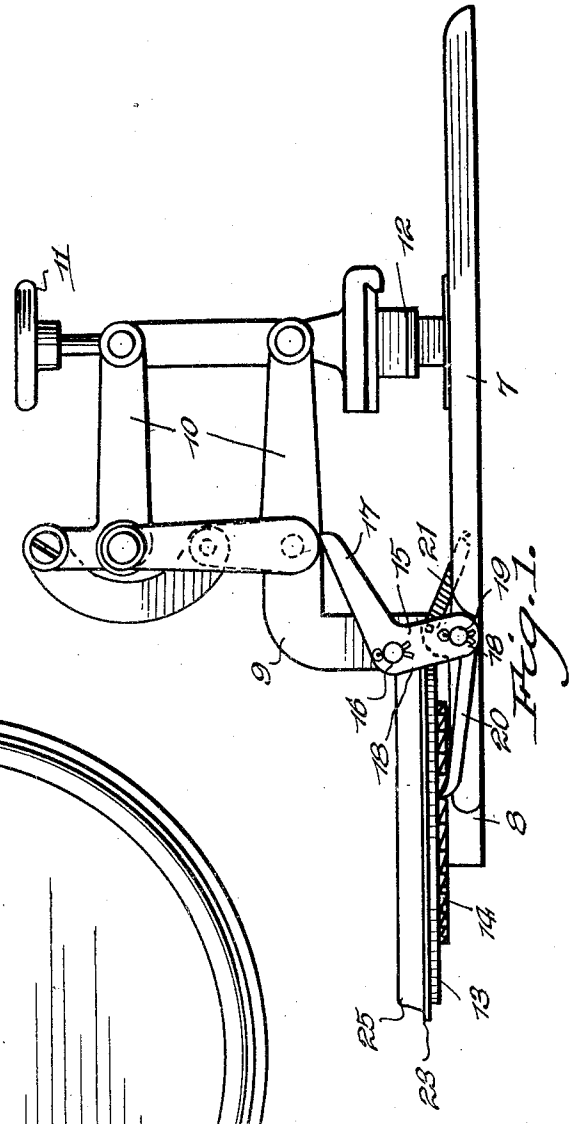


Fig. 7.

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PRINTING PRESS

Filed Sept. 29, 1926 2 Sheets-Sheet 2

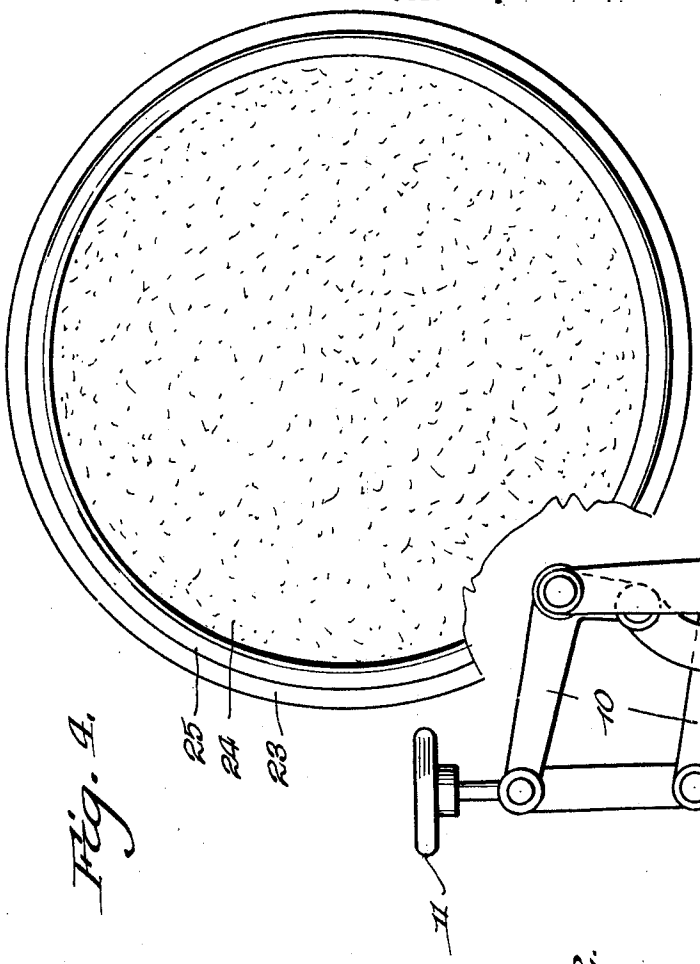


Fig. 4.

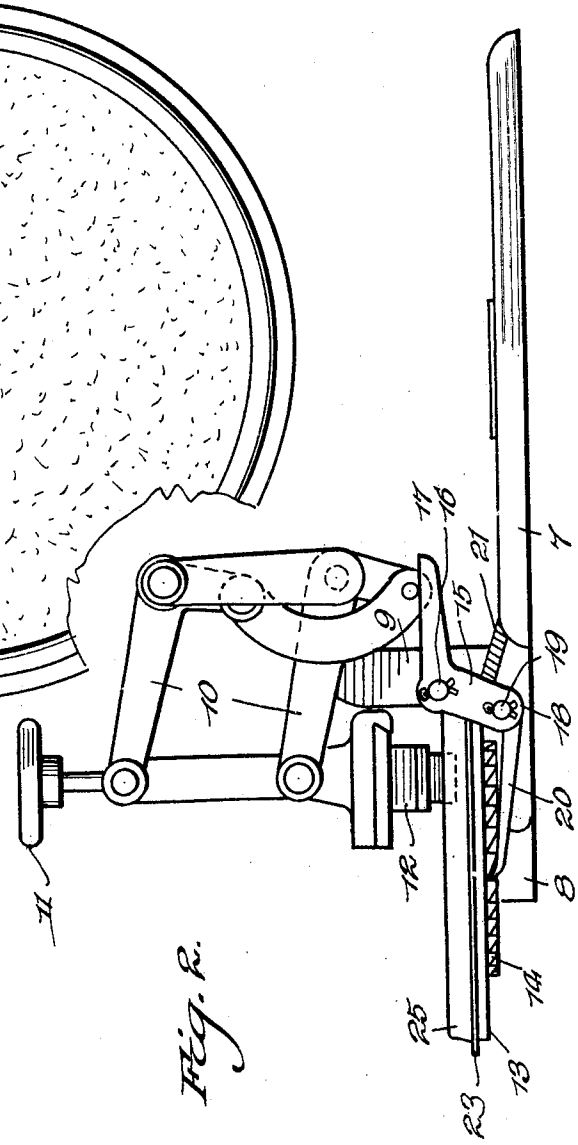


Fig. 2.

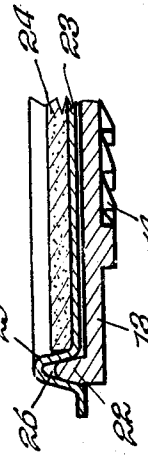


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN P. NISSEN, JR., OF PHILADELPHIA, PENNSYLVANIA.

PRINTING PRESS.

Application filed September 29, 1926. Serial No. 138,507.

The present invention relates to printing presses, and more particularly that character in which the type or symbol to be impressed is carried by an oscillating frame between the inking pad and the printing point. The present machine is specifically designed for printing on fabrics, as for example, hosiery, but is of course not restricted to such use.

The primary object of the present invention is to provide an inking mechanism in which the inking pad or inking member can be readily removed from the press and replaced, thus making it possible to change the character or color of the ink at any time desired, said inking pad moreover being so constructed that when not in use, it can be effectively covered, thus avoiding danger of the ink becoming smeared on goods and also maintaining it in properly usable condition.

In the accompanying drawings:—

Figure 1 is a side elevation of a printing press, showing the novel inking mechanism in place thereon, and with the type mechanism in a position to print,

Figure 2 is a view similar to Figure 1, but with the printing member on the ink pad,

Figure 3 is a detail sectional view through a portion of the inking member on its support,

Figure 4 is a plan view of the ink pad,

Figure 5 is a plan view of the ink pad when covered,

Figure 6 is a sectional view on the line 6—6 of Figure 5.

In the embodiment disclosed, a bed plate 7 is provided, having an extension 8, said extension carrying a supporting bracket 9. On this supporting bracket are links 10 carrying a handle 11 and a printing head or member 12.

A rotatable pad carrier disk 13 is journaled on the extension 8, and is provided on its underside with an annular series of ratchet teeth 14. A bell crank 15, pivoted as shown at 16 on the bracket 9, has one arm 17 arranged to be struck and operated by one of the links of the system 10. The other arm 18 of this bell crank has pivoted thereto, as shown at 19, a pawl 20 that engages the ratchet teeth 14. This pawl is held in engagement with said teeth by a spring 21 engaged with the pawl above the pivot 19 and connected to a part of the bed plate 7. The disk 13 is provided at its periphery with a circular upstanding wall 22.

The inking member consists of a pan or container 23, in which is placed an ink absorbent pad or disk 24. This pan or container is preferably made of sheet metal with a flat bottom and marginal walls formed by doubling upwardly the margins of the sheet by which the pan is formed. These walls are shown at 25, and provide in the underside of the pan, a groove 26 that detachably receives the rib 22 of the disk.

A removable cover of sheet metal is provided for the pan or container, and consists of a sheet metal disk 27, having its margins doubled upwardly, as illustrated at 28, forming a groove 29 that receives the marginal walls 25 of the pan.

With this construction, if a pan or container is placed upon the carrier disk 13, it will be effectively held in place by the rib 22 engaging in the groove 26, and consequently said pan and pad 24 will rotate with the disk. If therefore the printing member is operated, it will be evident by a comparison of Figures 1 and 2 that it may be caused to move between a position on the inking pad and a position on the bed plate, thus alternately being inked and making an impression on the goods placed on the bed plate.

If it is desired to change the ink, it is only necessary to remove the pan or container and replace it by another, the pan or pans not being used being covered, as indicated in Figures 5 and 6. It will be evident that the structure disclosed has a number of novel arrangements, in that the formation of the pan produces not only the side walls, but also a groove to receive the retaining flange 22 of the carrier disk and an extension above the inking pad 24 to receive the groove of the cover when not in use.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

What I claim, is:

1. In a printing press, a support for an inking pad, having an upstanding marginal retaining rib, a container that detachably rests on the support and has an upstanding double

wall forming a groove in its underside that detachably receives the rib of the support, and ink holding material in the container.

2. In a printing press, a rotary disk support and means for rotating it, said disk support having an upstanding annular retaining rib, a container of sheet material having its margins upset and doubled, forming an annular side wall and a groove in its underside that detachably receives the rib, and an ink pad in the container.

3. In a printing press, a rotary disk support and means for rotating it, said disk support having an upstanding annular retaining rib, a container of sheet material having its margins upset and doubled, forming an annular side wall and a groove in its underside that detachably receives the rib, an ink pad in the container, and a detachable cover for the container having a flange that frictionally engages over the wall of the container.

4. An ink container for printing presses, comprising a metal sheet having its margins upset and doubled to provide an upstanding retaining wall and a marginal groove in its underside, and an ink pad in the container.

5. An ink container for printing presses, comprising a metal sheet disk having its margins upset and doubled to provide an upstanding substantially circular retaining wall and a substantially circular marginal groove in its underside, and an ink pad disk in the container.

6. An ink container for printing presses, comprising a metal sheet having its margins upset and doubled to provide an upstanding retaining wall and a marginal groove in its underside, an ink pad in the container, and a cover comprising a metal sheet having an upset marginal portion forming a groove that receives the retaining wall of the container.

7. In a printing press, the combination with printing mechanism, a movable support for a pad that supplies ink to the printing mechanism, and means for moving the support, of a container of material impermeable to ink and that detachably rests on the support and has an engagement therewith to insure its movement with the support, and ink-holding material in the container for supplying ink to the printing mechanism, said container and ink-holding material being removable from and replaceable on the support in assembled condition.

8. In a printing press, the combination with printing mechanism, a movable support for a pad that supplies ink to the printing mechanism, and means for moving the support, of a container of material impermeable to ink and that detachably rests on the support, means for positioning the container on the support and insuring its movement therewith while permitting its detachment from the support, and ink-holding material in the container for supplying ink to the printing mechanism, said container and ink-holding material being removable from and replaceable on the support in assembled condition.

9. In a printing press, the combination with printing mechanism, a movable support for a pad that supplies ink to the printing mechanism, and means for moving the support, of a container comprising a bottom and side walls of material impermeable to ink, said container detachably resting on the support, means for positioning the container on the support and insuring its movement therewith while permitting its detachment from the support, ink-holding material in the container for supplying ink to the printing mechanism, said container and ink-holding material being removable from and replaceable on the support in assembled condition, and a detachable cover for the open top of the container that engages the side walls.

10. In a printing press, the combination with printing mechanism, a rotary support for a pad that supplies ink to the printing mechanism, and means for moving the support, of a container comprising a bottom and side walls of material impermeable to ink, said container detachably resting on the support, interfitting means between the support and container for positioning the latter on the former and insuring its rotation therewith, and ink-holding means in the container for supplying ink to the printing mechanism, said container and ink-holding material being removable from and replaceable on the support in assembled condition.

In testimony whereof, I affix my signature.

JOHN P. NISSEN, JR.