March 3, 1936. H. A. W. WOOD 2,032,607

LATE NEWS PRINTING MACHINE

Original Filed April 15, 1930 2 Sheets-Sheet 1

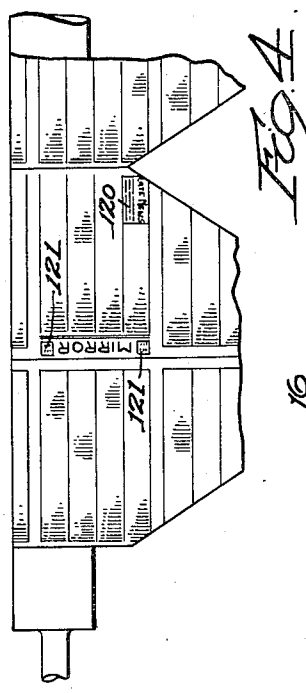


Fig. 4.

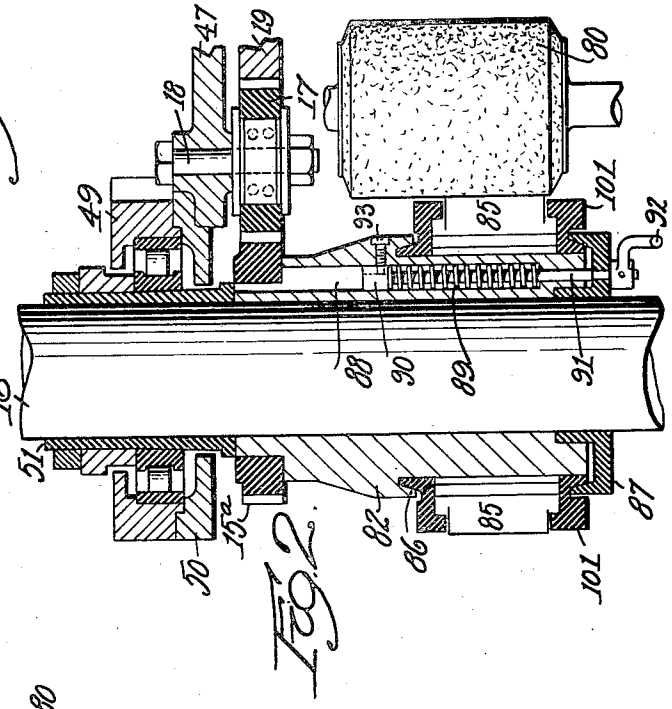


Fig. 2.

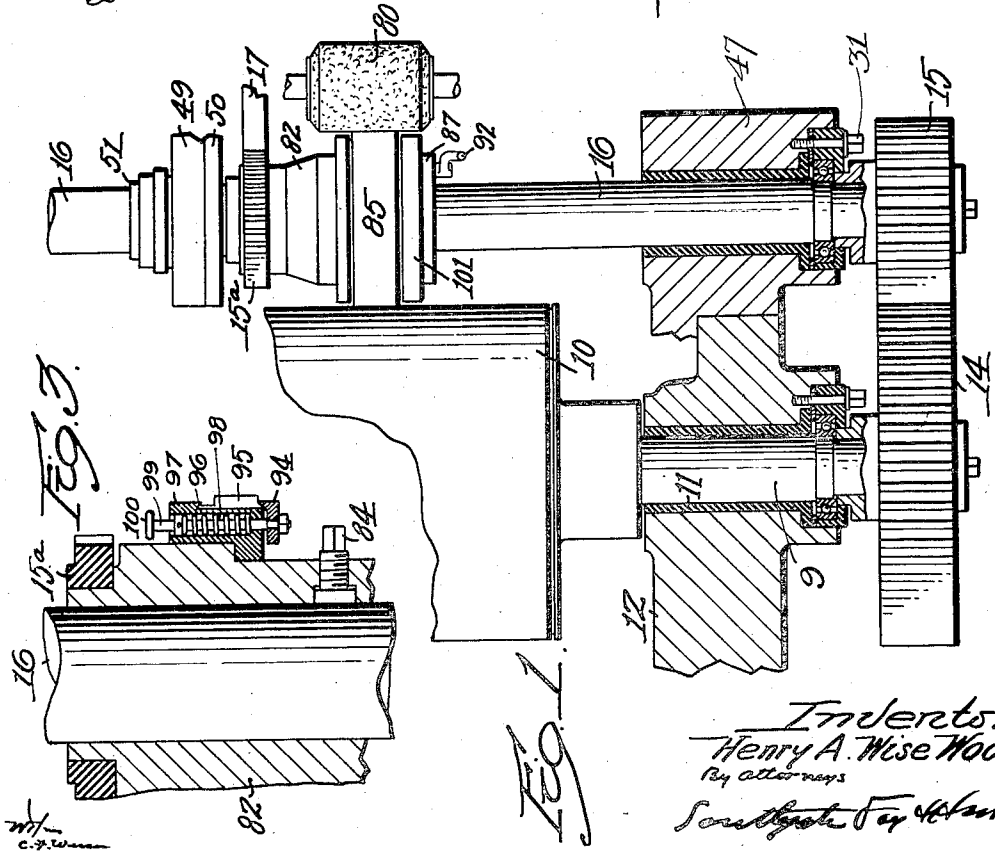


Fig. 1.

Fig. 3.

Inventor
Henry A. Wise Wood
By attorneys
Scantlebury & Scantlebury

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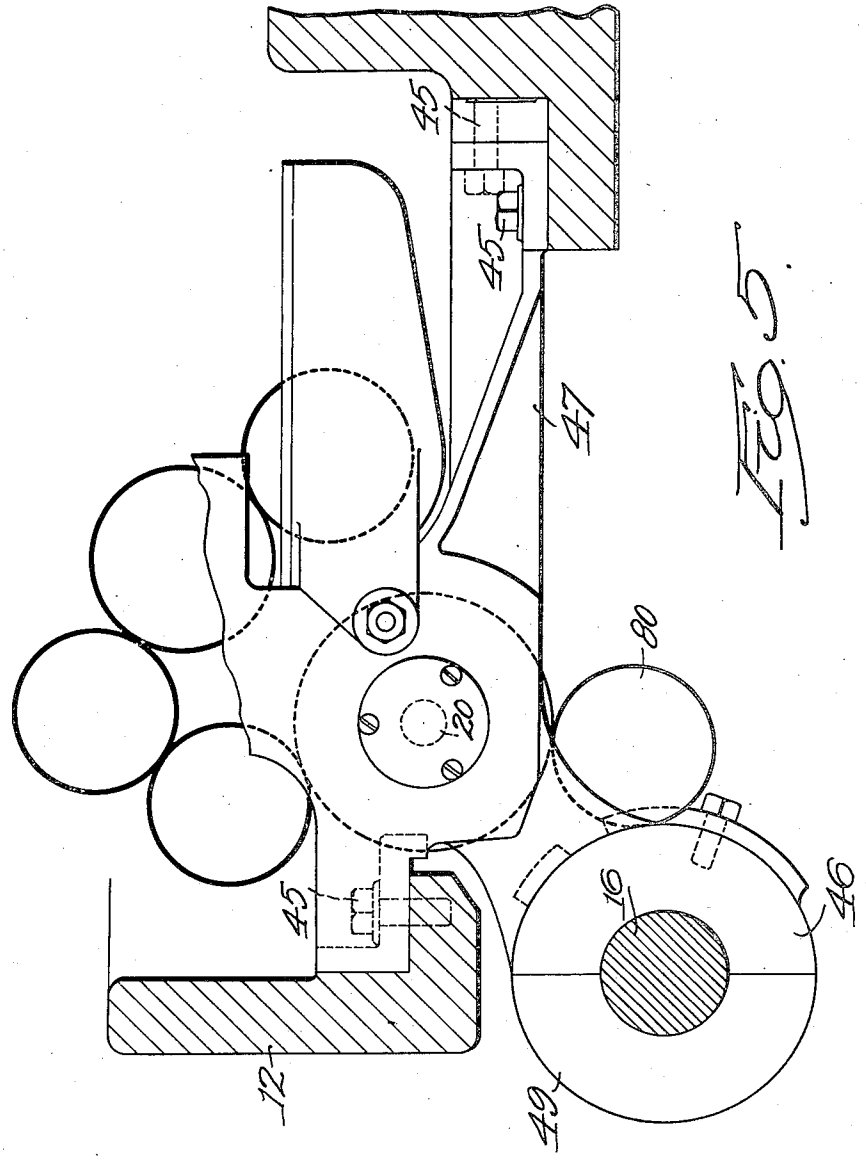


Fig. 5.

Inventor
Henry A. Wise Wood
By attorneys
Southgate Fay & Hanby

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UNITED STATES PATENT OFFICE

2,032,607

LATE NEWS PRINTING MACHINE

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Original application April 15, 1930, Serial No. 444,422. Divided and this application May 28, 1932, Serial No. 614,105

1 Claim. (Cl. 101—221)

This is a division of a patent on an Inking mechanism for late news printing machine, No. 1,933,887, patented Nov. 7, 1933.

The invention relates to a machine for printing news that comes in while the paper is going through the printing press.

The principal objects of the invention are to provide a late news printing cylinder with improved means for holding the late news device and locking the same thereon in an expeditious manner after the news is received to print the late news into blank spaces left by the original stereotype plate, and to provide means for locking the fudge block or blocks on the type or fudge cylinder in which the fudge block can be applied.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings in which

Fig. 1 is a horizontal sectional view through the center of the type cylinder and impression cylinder;

Fig. 2 is a developed sectional view on a broken line showing a preferred form of means for holding the fudge block;

Fig. 3 is a sectional view through the center of the printing cylinder shaft showing a modified form of the means for holding the fudge blocks in position;

Fig. 4 is a side view showing the paper being delivered over the former to illustrate a position in which the present machine can print the late news, and Fig. 5 is a side view showing the fudge type cylinder in end elevation.

The invention is used with a full sized impression cylinder 10 mounted in bearing sleeves 11 on the frame 12 of the press and driven from the press in any usual way. The bearings of this cylinder are shown as provided with screws 31 for longitudinal adjustment. On the end of a shaft 9 is a gear 14 meshing with a gear 15 on the type cylinder shaft 16. A gear 15a on the shaft 16, through a gear 17 on a stud 18, drives a gear 19 on the ink drum shaft.

The frame 12 of the printing press and its cross brace 43 are provided with a frame 47 carrying the inking mechanism. This frame 47 is detachably mounted by means of bolts 45 and it carries with it the shaft 20 of the ink distributing system, which can be removed with the frame 47 as a unit.

At the opposite end the frame 47 is provided with a semi-circular projection 46 for engaging a roller bearing socket 49 and a cap 50 of a similar shape fits the semi-circular part of the frame which butts against it.

The socket 49 carries the outer race of a roller bearing and the inner race is constructed to fit on the wedge-shaped split adapter 51 carried on the type cylinder shaft 16. Two special lock nuts are used to force the inner race up the incline of the split adapter to make a firm fit and clamp the adapter to the shaft. The use of a roller bearing allows for longitudinal adjustment. In this way the frame 47 is accurately supported at both ends.

A single form roll 80 is employed. The form roll of course as usual engages the ink drum and also the type cylinder 82 on the shaft 16.

The type cylinder 82 is adjustably mounted on the shaft 16 and is clamped in adjusted position by a locking screw 84. The fudge block 101 carrying the type 85 is held between an internal beveled or conical surface 86 on the type cylinder and a similar surface on an end clamp 87. In order to provide the necessary pressure for holding the clamp 87 against the fudge block, the cylinder 82 is provided with a deep recess 88 in which is seated a spring 89 having a head 90 freely movable in the outer or larger part of the recess. Secured to this head is a rod 91 with an operating handle 92 on the end beyond the clamp 87. This handle is fixed to the rod and the hub of the handle presses against the clamp with the force of the spring and holds the clamp in position. The handle can be pulled back to release the clamp. A screw 93 is used to secure the rod and therefore the clamp in fixed position to avoid accidental displacement.

The fudge block may extend all or a part of the way around the cylinder and the cylinder is constructed to permit of a complete cylindrical fudge. The clamp 87 surrounds the shaft and constitutes a complete circle.

In Fig. 3 another form is shown for securing the desired results where a small design, as for example a star or a number of stars, is employed for designating different editions. In this case the general construction shown in Fig. 2 is employed but for a small arc or periphery a construction like that shown in Fig. 3 is used. A small bevel clamp 94 clamps the printing member 95 against a beveled edge 96 on the holder 97. Pressure is maintained on this clamp by means of a spring 98 on a rod 99 having a handle 100 for operating it. This handle permits the pushing of this rod against the spring pressure to release the end clamp 94. This accords a quick and convenient means for this purpose.

In either case the means for holding the type is clamped between beveled surfaces.

The manner of printing will be obvious from Fig. 1 in which the fudge block is the printing member of a printing couple in which the impression cylinder of the press constitutes the other member. The inking has been described. Fig. 4 shows a newspaper passing over the former, the late news portion, printed by this machine being illustrated at 120 and the small design described in connection with Fig. 3 being illustrated at 121.

It will be seen that the fudge block is inked so that the printing will be done substantially as well as the rest of the newspaper. This device constitutes a complete press as far as the inking and printing is concerned, performing the necessary functions. The parts are easily adjustable.

Although I have illustrated and described one form of the invention with only a slight modification, I am aware of the fact that other modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claim. Therefore I do not wish to be limited in this respect but what I do claim is:—

In a late news printing device, the combination with a main frame, a type cylinder shaft and a type cylinder on the shaft, of a frame detachably carried by the main frame, inking members carried by said detachable frame, and a semi-circular projection on the detachable frame having a cap thereon for carrying one end of said type cylinder shaft.

HENRY A. WISE WOOD.