Sept. 2, 1930. H. A. W. WOOD 1,774,779

PAPER LEAD FOR THE UPPER DECKS OF PRINTING PRESSES

Filed Dec. 20, 1926 2 Sheets-Sheet 1

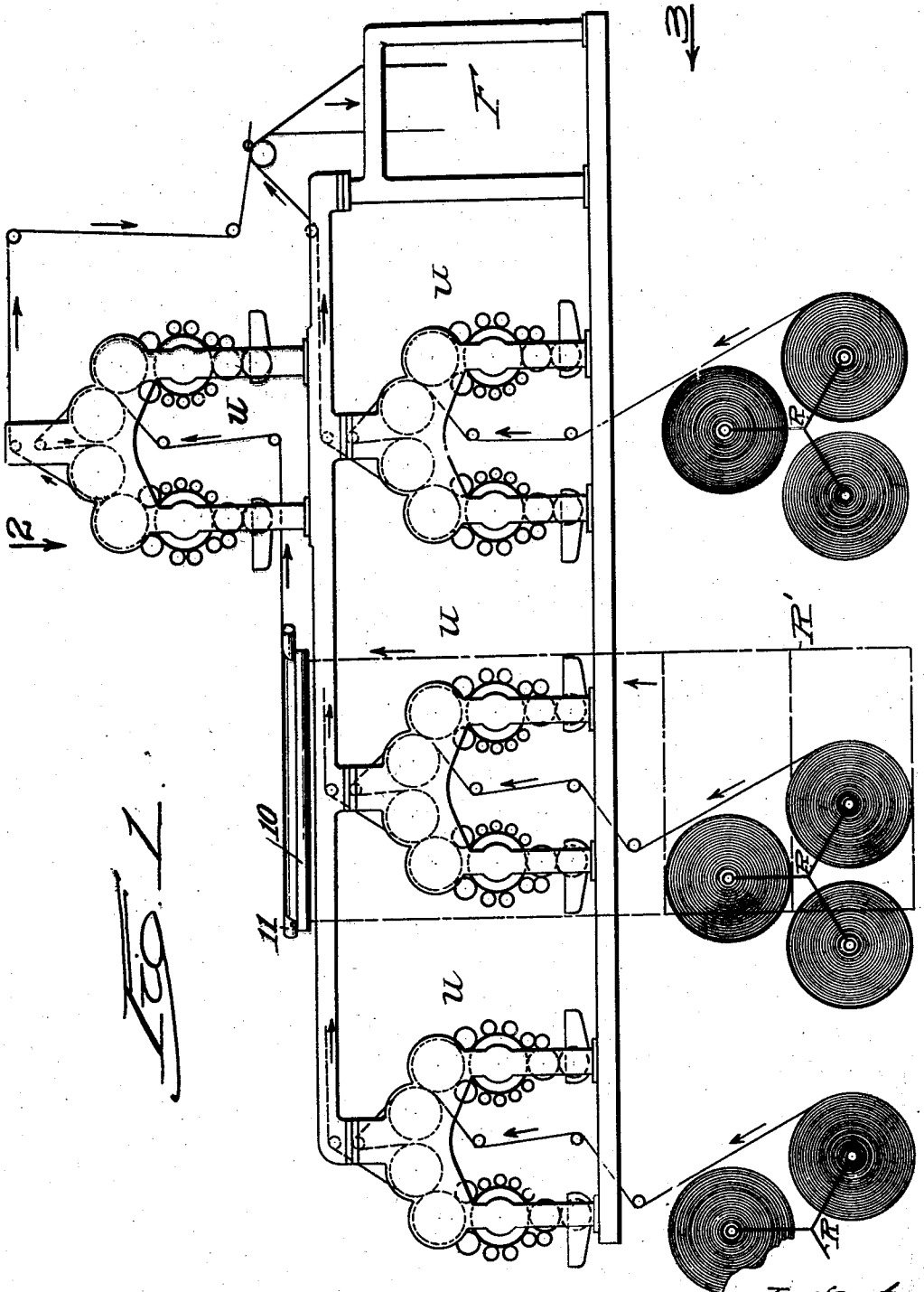


Fig. 1

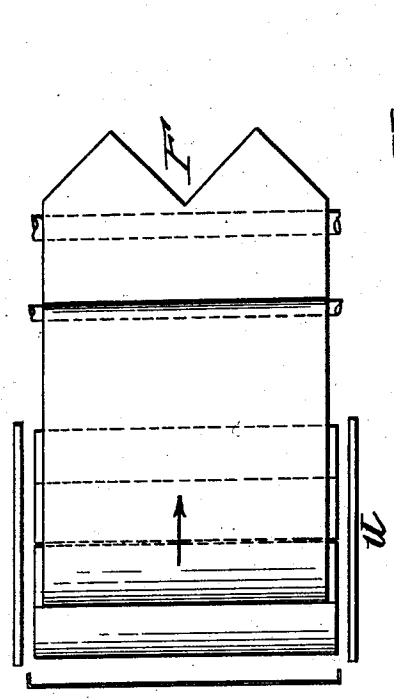
Witness
C. F. Mason.

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

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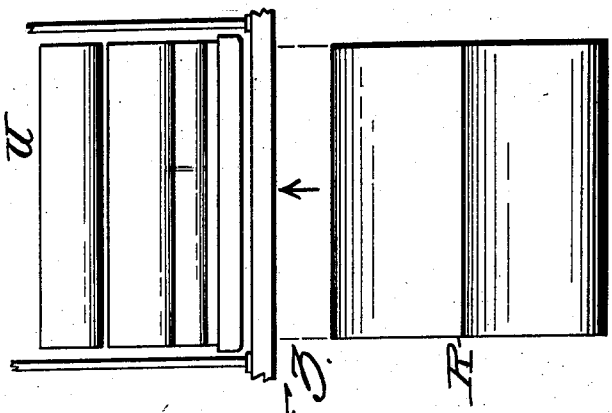
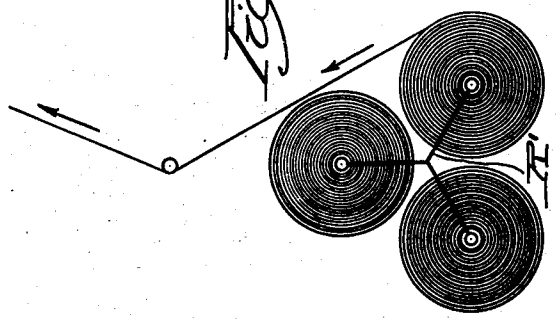


Fig. 3.



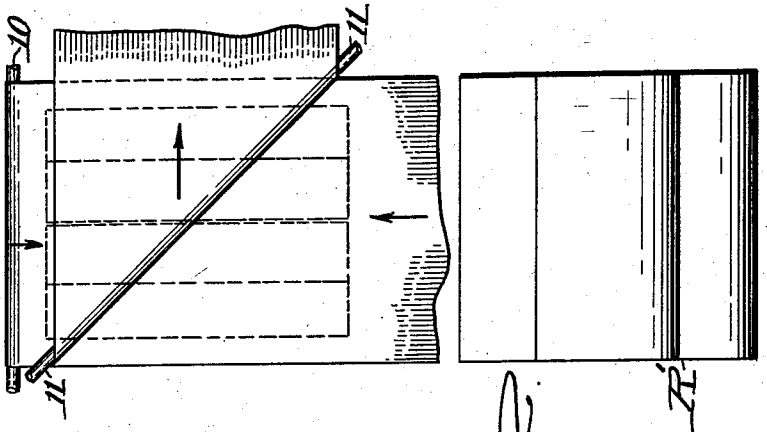
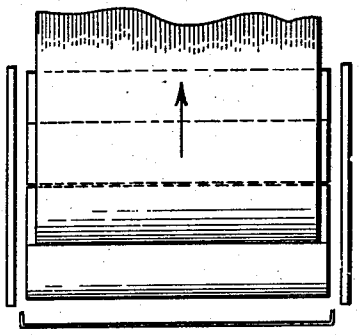


Fig. 2.



Witness
C. J. Mason.

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

Patented Sept. 2, 1930 1,774,779

UNITED STATES PATENT OFFICE

HENRY A. WISE WOOD, OF NEW YORK, N. Y., ASSIGNOR TO WOOD NEWSPAPER MACHINERY CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF VIRGINIA

PAPER LEAD FOR THE UPPER DECKS OF PRINTING PRESSES

Application filed December 20, 1926. Serial No. 155,949.

This invention relates to that class of printing presses in which, on account of the lack of floor space or for other reasons, a unit of the press is placed on top of one of the usual units, forming an upper deck.

The principal object of the invention is to provide means for feeding the web to the upper deck and from that to the folding mechanism, without encountering the difficulties that have been found in previous constructions. These difficulties were due to the fact that the web had to be carried to the upper deck from a level below the lower decks, and from the furthermost point of the units placed on the floor. I provide a more direct path for the web from the supply roll to the upper deck. 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 side view of a printing press having a plurality of units at the floor level and a deck located above them, with a preferred embodiment of this invention applied thereto;

Fig. 2 is a plan of the same; and

Fig. 3 is a fragmentary end view of the press showing also the path of the web from the supply roll to the upper deck.

Printing press units are arranged, if possible, on the floor level, one beside another with a paper supply directly underneath them on a lower level, ordinarily called the reel room. When an additional unit is required and there is no more floor room for it, it is common to place it upon one of the existing units. This, however, involves the problem of feeding the paper to the upper deck, which involves several difficulties. It is necessary to bring the paper to the upper deck from the end of the press, that is, from the furthermost point in the series of units on the floor. This deck is placed near the folding unit, when convenient, so that after the web is printed it will go more directly into the folder. The advantage of this is partly overcome by the fact that the web roll for the upper deck had to be arranged at the opposite end of the whole series of units and therefore had to pass through or over one or more press units.

For the purpose of solving these difficulties I have provided a novel arrangement for feeding an upper deck without carrying the paper all the way through or over the several units. In this case, the three lower units U are indicated at the floor level arranged in line as usual. The three reels R for carrying the spare rolls and the running roll for supplying the web are indicated in their usual positions. On the frame of the machine above one of the units is placed the unit U of the upper deck in the usual position where it will deliver directly to the folding mechanism F.

It will be seen that the several units of the press are all placed with the axes of the printing couples parallel with each other so that the webs, as delivered, will run parallel with each other and one over the other, in registration, to the folder. This would necessitate, under the old practice, the placing of another reel beyond the end reel R. To overcome this difficulty, shorten the web path, and secure the advantages incident to the same, I have provided a reel R′ for supplying the upper deck U with the axes of the rolls arranged longitudinal with respect to the length of the press, or at right angles to the usual construction. This enables me to put this reel, or whatever support is used, at the side of one of the reels R as shown more clearly in Fig. 2. The web is then run upwardly at the side as indicated in Fig. 3. It passes over a guide roll 10 and over turning bars 11 to turn this web to run over the other webs and in registration therewith to the unit U. This web is then operated upon in the usual way in this upper deck and delivered at the top and down into the folder in registration with the other three webs, in this particular machine.

This shortens the web path from the running web roll to the upper deck and that without hindering the way in which the web is finally delivered from that unit or deck to the folder. In addition to the fact that it shortens the length of the web path, it, of course, necessitates more space at the side for

the extra reel R'. That space, however, is more apt to be available than further space at the end.

It will be understood of course that, although I have illustrated and described only a single type of press, this invention is independent of any particular type of newspaper printing press and can be used generally in the newspaper industry. Although I have illustrated and described only one form of the invention I am aware of the fact that modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims.

Therefore, I do not wish to be limited to the details of construction herein shown and described, but what I do claim is:—

1. In a newspaper printing machine, the combination with a lower deck consisting of a plurality of units and an upper deck having means for receiving a web, printing it, and delivering it to a folding mechanism, the printing couples of the two decks being arranged parallel of a web supply device for the upper deck delivering a web thereto in a plane, which at the web supply, is substantially at right angles to the plane at which the webs are delivered to the units of the lower deck, and means associated with the upper deck for turning the web to run in a direction parallel to the path of the webs from the lower deck into the folding mechanism.

2. In a newspaper printing machine, the combination with a lower deck and an upper deck, of a support having a web roll for supplying the upper deck located at the end of one of the press units and at a level below it and delivering the web in a direction transverse to the direction in which the webs are delivered to the units of the lower deck, in a path located beyond the end of one of the lower decks from below said lower deck to the top of that lower deck, and turning bars between the upper and lower decks for turning said web into a path parallel with and above the web paths of the lower decks into the upper deck.

In testimony whereof I have hereunto affixed my signature.

HENRY A. WISE WOOD.