Nov. 22, 1932. H. M. BARBER 1,888,783

FLAT SHEET DELIVERY FOR PRINTING PRESSES

Filed Oct. 23, 1930 3 Sheets-Sheet 1

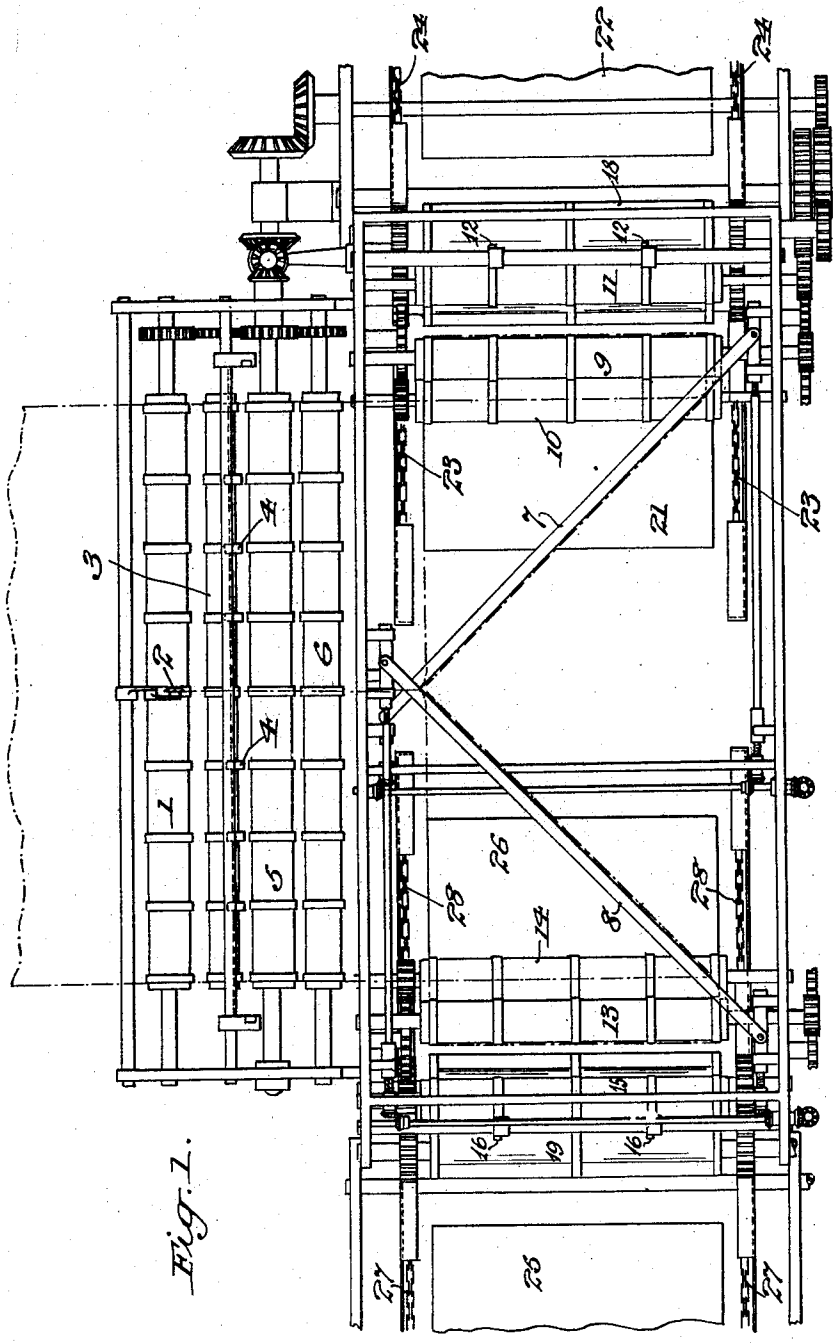


Fig. 1.

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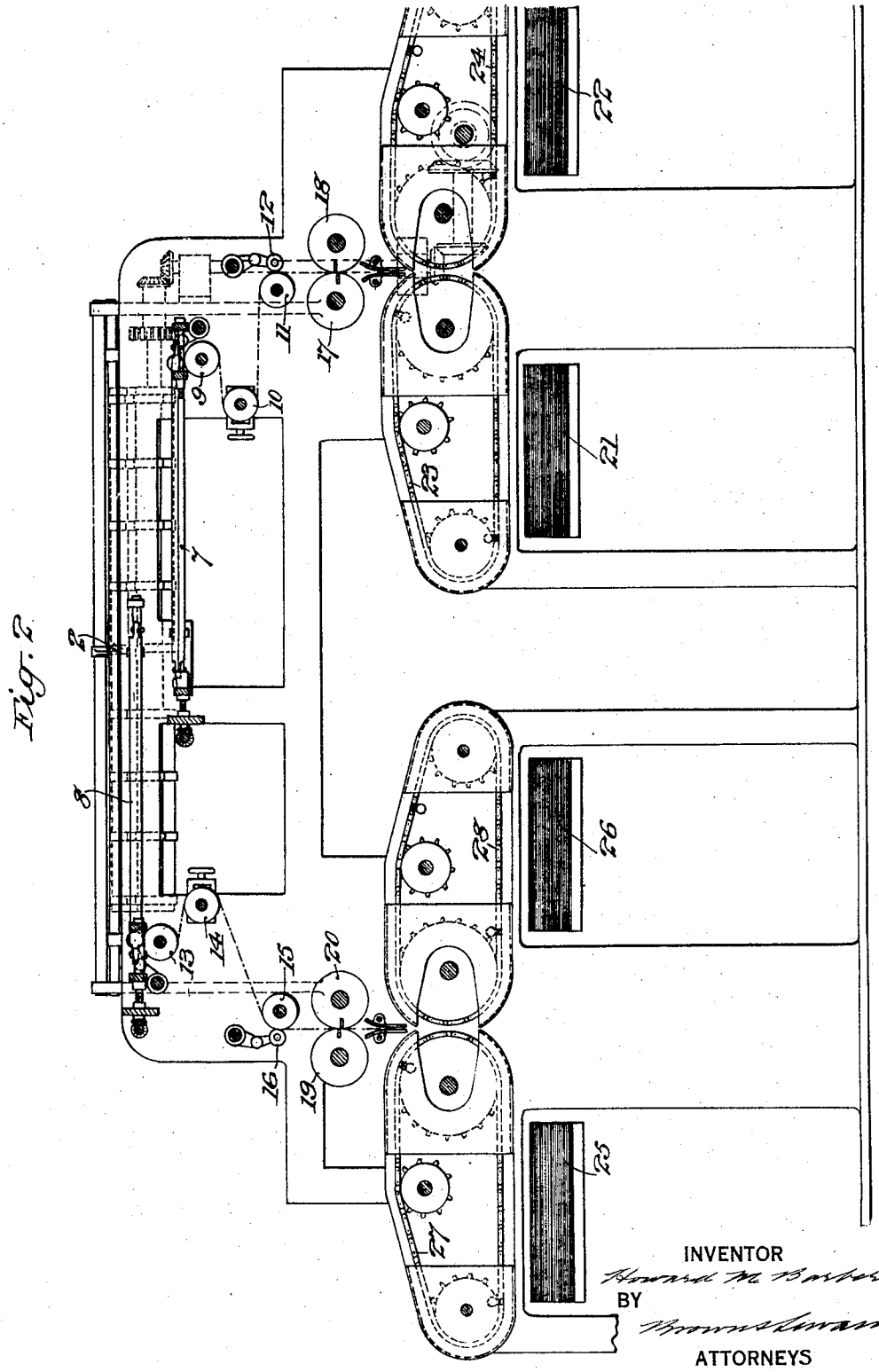


Fig. 2.

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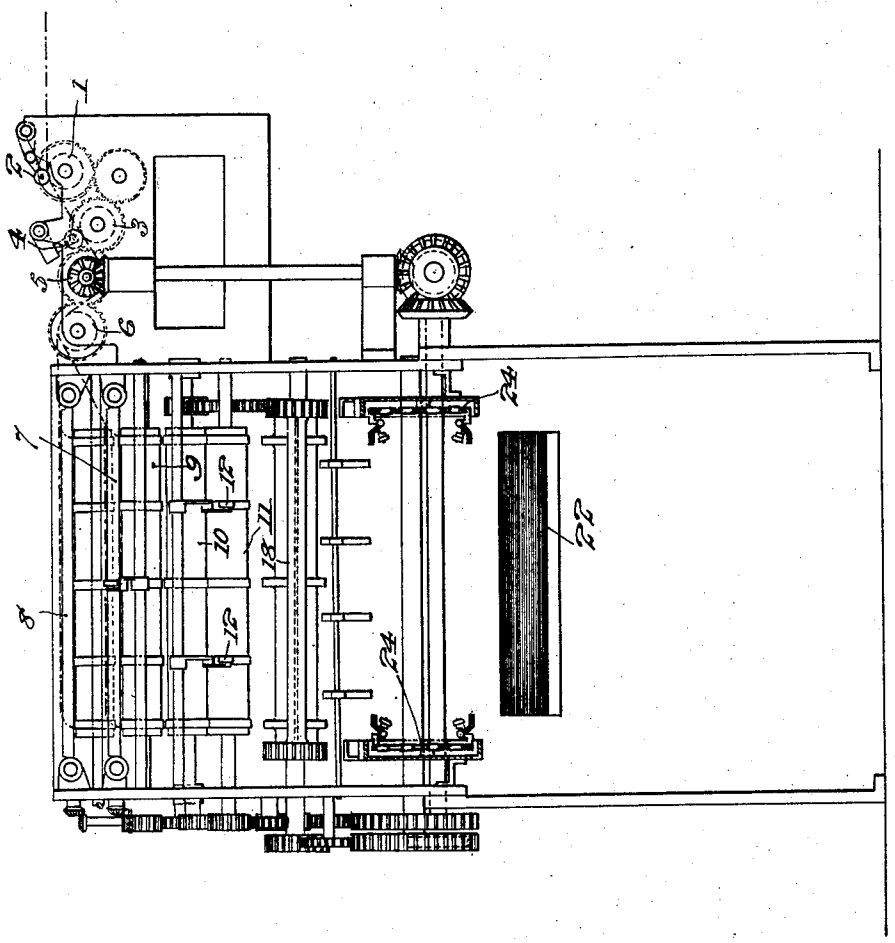


Fig. 3.

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Patented Nov. 22, 1932 1,888,783

UNITED STATES PATENT OFFICE

HOWARD M. BARBER, OF PAWCATUCK, CONNECTICUT, ASSIGNOR TO C. B. COTTRELL & SONS COMPANY, OF WESTERLY, RHODE ISLAND, A CORPORATION OF DELAWARE

FLAT SHEET DELIVERY FOR PRINTING PRESSES

Application filed October 23, 1930. Serial No. 490,625.

The object of this invention broadly is to provide means for delivering the product of a web printing press flat in a predetermined number of sheets so as to eliminate the expense and inconvenience of the stacking and cutting operations which would be necessary if the full product of the press were delivered in single sheets.

A practical embodiment of my invention is represented in the accompanying drawings, in which

Fig. 1 represents a top plan view of a four sheet flat delivery embodying my invention;

Fig. 2 represents a front view of the same, and

Fig. 3 represents a side view of the delivery.

The wide web is passed over the feed roll 1 where it is slit longitudinally into two narrow webs by the coaction of the slitter 2 with the said web feed roll 1. From thence the two narrow webs are passed between the feed rolls 3 and 4, under the feed roll 5 and over the feed roll 6.

The two narrow webs are then passed laterally in opposite directions around their respective right and left turning bars 7 and 8, to and around their respective series of feed rolls 9, 10, 11, 12 and 13, 14, 15, 16, to their respective sheet cutting mechanisms herein shown as pairs of coacting rotary cutters 17, 18 and 19, 20.

The sheets cut from the right hand narrow web by the cutters 17, 18 are alternately delivered laterally in opposite directions to two piles 21, 22 by the endless delivery carriers 23, 24. Similarly, the sheets cut from the left hand narrow web by the cutters 19, 20 are alternately delivered laterally in opposite directions to two piles 25, 26 by the endless delivery carriers 27, 28.

It will be understood that any well known or approved means may be employed for driving the parts hereinabove described and it is therefore not thought necessary to specifically describe the said means.

From the above description it will be seen that by this arrangement of the parts the path of the web is very short and plenty of room is left in front of the delivery for the operator to remove sheets from any of the piles for inspection purposes. It will also be seen that all of the piles when full can be removed through the front of the delivery, the entire delivery at the same time occupying a very compact space.

It is evident that various changes may be resorted to in the construction, form and arrangement of the several parts without departing from the spirit and scope of my invention, and hence I do not intend to be limited to the particular embodiment herein shown and described, but

What I claim is:—

1. A four pile flat sheet delivery comprising means for feeding a wide web, means for slitting the wide web longitudinally into two narrow webs, means for leading the two narrow webs in opposite directions to their respective sheet cutting means, said sheet cutting means, and means for delivering the sheets cut from each narrow web in opposite directions to two piles.

2. A four pile flat sheet delivery comprising means for feeding a wide web, means for slitting the wide web longitudinally into two narrow webs, means for leading the two narrow webs laterally in opposite directions to their respective sheet cutting means, said sheet cutting means, and means for delivering the sheets cut from each narrow web laterally in opposite directions to two piles.

3. A four pile flat sheet delivery comprising means for feeding a wide web, means for slitting the wide web longitudinally into two narrow webs, means for leading the two narrow webs in opposite directions to their respective sheet cutting means, said sheet cutting means, and means for delivering alternate sheets cut from each narrow web in opposite directions to two piles.

4. A four pile flat sheet delivery comprising means for feeding a wide web, a slitter for dividing the wide web longitudinally into two narrow webs, means including two turning bars for leading the narrow webs to their respective sheet cutters, said sheet cutters, and two endless delivery carriers for each sheet cutter, arranged to deliver the sheets cut from each narrow web to two piles.

5. A four pile flat sheet delivery comprising means for feeding a wide web, a slitter for dividing the wide web longitudinally into two narrow webs, means including two turning bars for leading the narrow webs in opposite directions to their respective sheet cutters, said sheet cutters, and two endless delivery carriers for each sheet cutter, arranged to deliver the sheets cut from each narrow web in opposite directions to two piles.

6. A four pile flat sheet delivery comprising means for feeding a wide web, a slitter for dividing the wide web longitudinally into two narrow webs, means including turning bars for leading the narrow webs to their respective sheet cutters, said sheet cutters, and two endless delivery carriers for each sheet cutter arranged to deliver alternate sheets cut from each narrow web to two piles.

7. A four pile flat sheet delivery comprising means for feeding a wide web, a slitter for dividing the wide web longitudinally into two narrow webs, means including turning bars for leading the narrow webs in opposite directions to their respective sheet cutters, said sheet cutters, and two endless delivery carriers for each sheet cutter, arranged to deliver alternate sheets cut from each narrow web in opposite directions to two piles.

In testimony, that I claim the foregoing as my invention, I have signed my name this 22nd day of October 1930.

HOWARD M. BARBER.