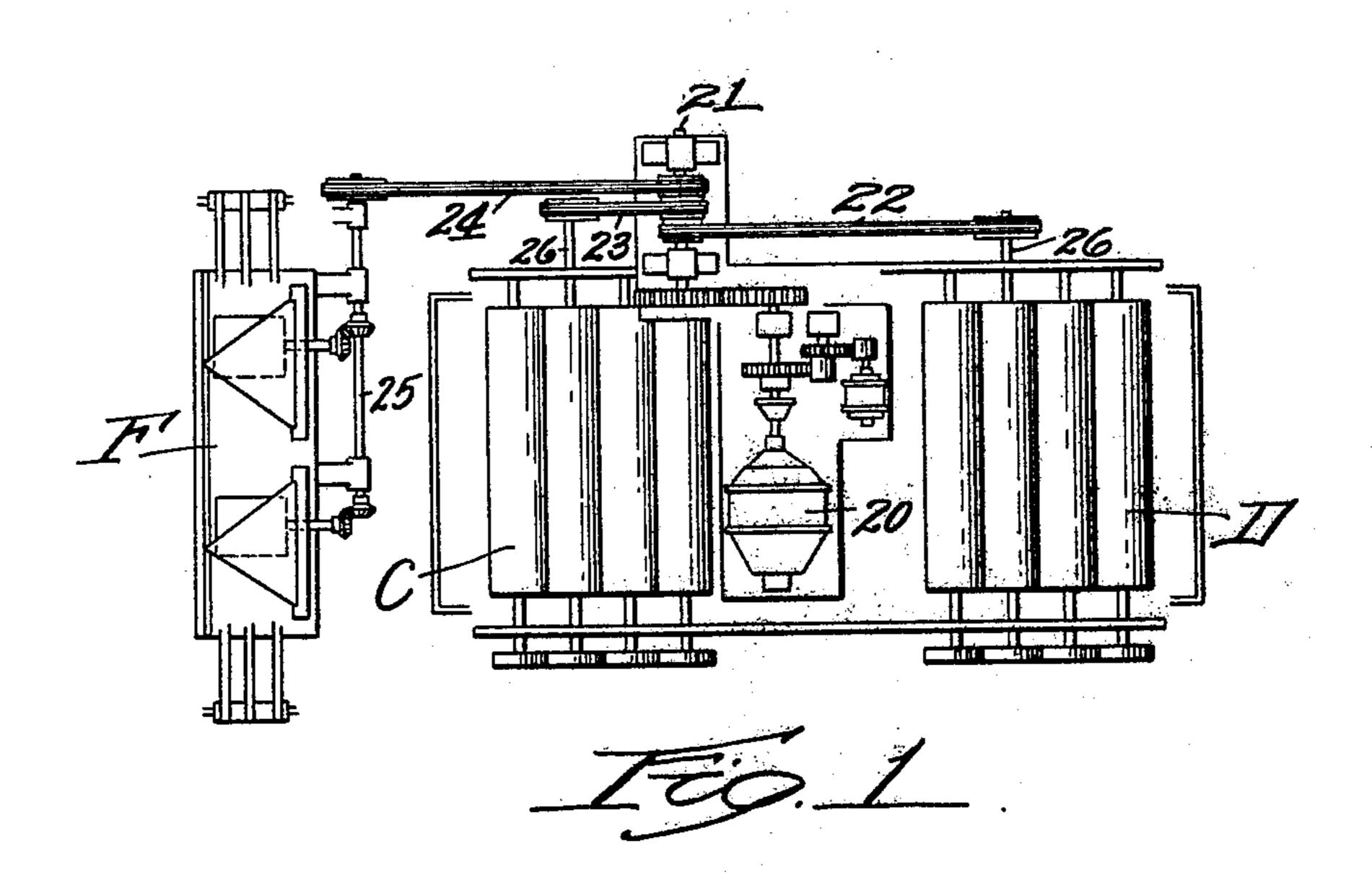
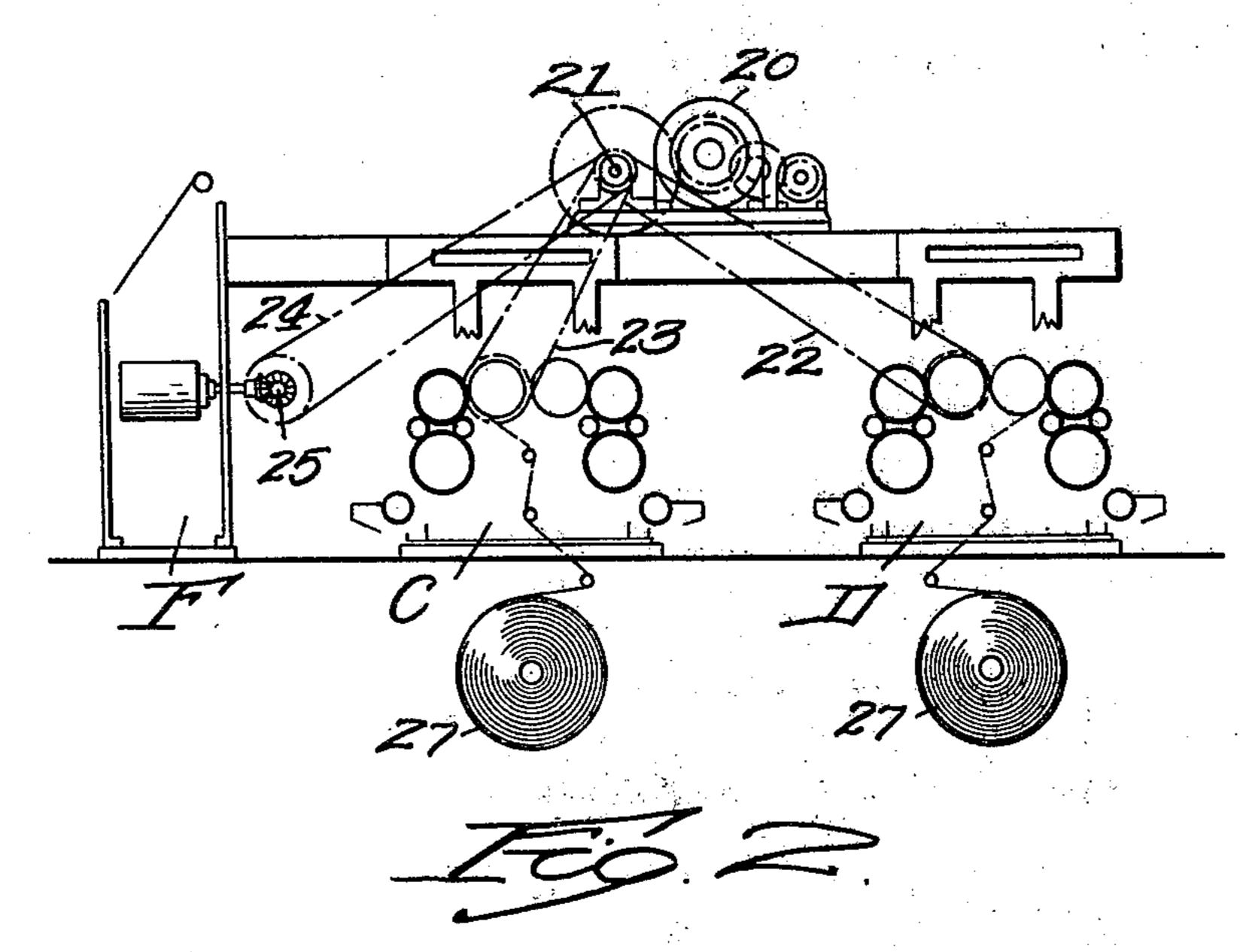
DRIVE FOR UNIT PRESSES AND FOLDERS
Original Filed March 16, 1926





Inventor

John A. Isbell.

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UNITED STATES PATENT OFFICE

JOHN A. ISBELL, OF PLAINFIELD, NEW JERSEY, ASSIGNOR TO WOOD NEWSPAPER MACHINERY CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF VIRGINIA

DRIVE FOR UNIT PRESSES AND FOLDERS

Original application filed March 16, 1926, Serial No. 95,036. Divided and this application filed November 21, 1929, Serial No. 408,711. Renewed March 31, 1932.

This invention is a division of my applica-

on a drive for unit press and folder.

5 to provide a compact drive for connecting the driven at the same speed. By this means any 55 several units of a press with the main driving means in such a way that the several units can be disconnected from the drive individually so as not to interfere with the driv-10 ing of the other units and in which this can ing or folding units on either side of it. be done in a convenient manner.

Other objects and advantages of the in-

vention will appear hereinafter. Reference is to be had to the accompanying

15 drawing in which

units arranged in accordance with this invention, and

Fig. 2 is a side view thereof.

the cylinders in each unit, generally con-25 structed with projections on the shafts which of one of the intermediate units breaks the is: power transmissions to any unit, which may 30 be driven from it on either side thereof, and throws out the whole mechanism until the necessary repairs are made.

This invention is designed for the purpose

of obviating this difficulty.

In the form shown, the two press units C and D are set up side by side, that is, with the corresponding cylinders parallel with each other longitudinally. Of course, the invention is not limited to the employment of 40 two units only. Furthermore the folder F is located at the end of the series.

A motor 20 drives a main driving shaft 21 through the usual gearing. Three separate chain drives 22, 23 and 24 are employed to de-45 liver power from this single shaft adjacent to the motor to the printing units C and D and the molding mechanism F. The main shaft 21 and the driving shafts 26 of the press units and the driving shaft 25 of the folder are parallel.

In this way the driving shafts of the units tion Serial No. 95,036, filed March 16, 1926, C, D and F are driven from the driving shaft 21 at whatever speed may be desired. Ordi-The principal object of this invention is narily, of course, these driving shafts are all intermediate unit may be silenced by disconnecting the corresponding sprocket chain from the sprocket wheels, without in any way interfering with the operation of the driv-

The supply rolls 27, it will be noted, can be located out of the way directly under the

press units.

It is to be understood that although I have shown only two printing units the invention 65 Fig. 1 is a plan of a certain type of multi- is not limited to any particular number. This ple press showing the drive for the several arrangement secures all the objects mentioned above, without in any way decreasing the output of the press or limiting the operation of its several units.

Heretofore one method employed for con- Although I have illustrated and described necting up several units consisted of a direct only one form of the invention I am aware of connection between the ends of the shafts of the fact that modifications can be made in the way of connecting the parts which have been described with the units of the press and 75 engaged each other to drive the several with the motor. Therefore, I do not wish to units together. In that case the disability be limited in this respect but what I do claim

> 1. In a printing machine, the combination with a plurality of printing units arranged 80 adjacent to each other, side by side and a folding unit arranged at the end of the series, of a main shaft, means for driving the main shaft, a series of sprocket wheels on the main shaft, a series of sprocket wheels, one 85 on each of the driving shafts of the several units, and sprocket chains connecting the sprocket wheels with each other in pairs side by side.

2. In a printing machine, the combination with a plurality of printing units arranged adjacent to each other, side by side, and a folding unit arranged at the end of the series, of a main shaft, and driving shafts for 95 the printing and folding units, all parallel with each other, means for driving the main shaft, a series of sprocket wheels on the main shaft, a series of sprocket wheels, one on each of the driving shafts of the several 100 units, and sprocket chains connecting the

sprocket wheels with each other.

3. In a printing machine, the combination with a plurality of printing units arranged adjacent to each other, side by side, and a folding unit arranged at the end of the series, of a main shaft, means for driving the main shaft, a series of sprocket wheels on the main shaft, a series of sprocket wheels, one on each of the driving shafts of the several units, and sprocket chains connecting the sprocket wheels with each other in pairs side by side and supply rolls for the press units located below them.

4. In a printing press, the combination with printing units and folders arranged side by side, of a drive shaft parallel to the printing cylinders of said units, and individual chain connections from the drive shaft to

²⁰ each unit and the folders.

In testimony whereof I have hereunto affixed my signature.

JOHN A. ISBELL.

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