

H. C. GILLESPIE.
PAPER FEEDING DEVICE.
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1,242,343.

Patented Oct. 9, 1917.

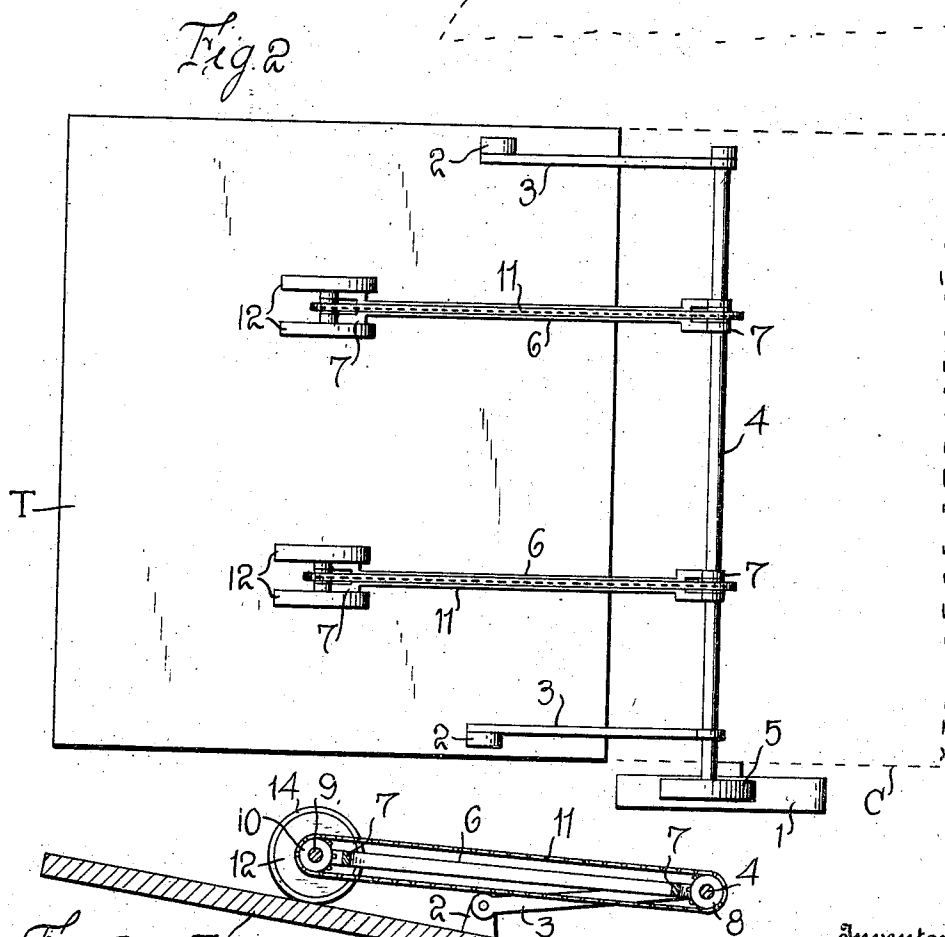
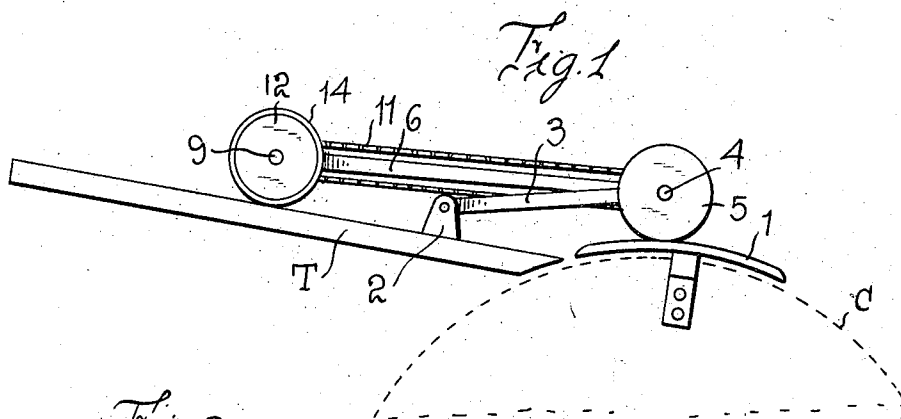
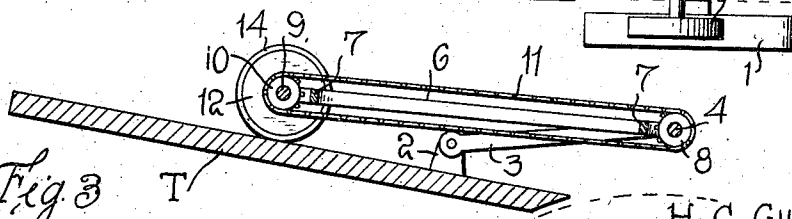


Fig. 3



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PAPER-FEEDING DEVICE.

1,242,343.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY C. GILLESPIE, a citizen of the United States, residing at Rupert, in the county of Minidoka and State of Idaho, have invented certain new and useful Improvements in Paper-Feeding Devices, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to paper feeding devices and has relation more particularly to a device of this general character especially designed and adapted for use in connection with a printing press; and it is an object of the invention to provide novel and improved means whereby the device is caused to intermittently operate by a movable part of a press to deliver sheets of paper thereto.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved feeding device whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a view in elevation illustrating a paper feeding device constructed in accordance with an embodiment of my invention, the coacting movable part of a press being indicated diagrammatically;

Fig. 2 is a view in top plan of my improved feeding device as herein embodied; and

Fig. 3 is a view partly in elevation and partly in section of my improved feeding device as herein set forth.

As disclosed in the accompanying drawings, C denotes the cylinder of a press which may be operated in any desired manner and to which sheets are delivered from the feed table T. The cylinder C is provided adjacent one end with a segmental bar or arm 1 for a purpose to be hereinafter referred to. It is to be understood, however, that if preferred the bar or arm 1 may be operatively connected with any rotatable part of a press as will meet the requirements of practice.

The opposite sides of the feed table T are provided with the upstanding brackets 2 provided with the forwardly directed arms 3. Rotatably supported by the arms 3 is the shaft 4 and suitably affixed to one end portion of the shaft 4 is the friction wheel 5 adapted to be engaged by the arm 1 hereinbefore referred to and whereby it will be perceived that the shaft 4 will be intermittently rotated upon the completion of each revolution of the cylinder C.

6 denotes a plurality of arms overlying the top of the table T and the opposite end of each of said arms are provided with forks 7, one of said forks 7 having disposed therethrough the shaft 4 and suitably affixed to said shaft 4 within each of the forks 7 is a sprocket wheel 8. Disposed through the second fork of each of the arms 6 is a shaft 9 having suitably affixed thereto and within the fork a sprocket wheel 10.

The sprocket wheels 8 and 10 are operatively connected by the chain 11 whereby the same will be caused to rotate in unison. The opposite end portions of the shaft 9 have suitably secured thereto the rollers or wheels 12 having their peripheries formed of rubber or the like, as indicated at 14, and which are adapted to engage a sheet of paper and cause the same to be fed to the press upon requisite rotation of the shaft 4.

From the foregoing description, it is thought to be obvious that a feeding device constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice, except as hereinafter claimed.

I claim:

1. In combination with a feed table and a driving member, a shaft supported by the feed table, coacting friction means carried by the driving member and the shaft for intermittently rotating the shaft, arms loosely engaged with the shaft, feed rollers supported by the arms, and an operative con-

nection between the shaft and the feed rollers whereby said rollers are caused to rotate simultaneously with the rotation of the shaft.

- 5 2. In combination with a feed table and a driving member, a shaft supported by the feed table, coacting means carried by the driving member and the shaft for intermit-
- 10 tently rotating the shaft, an arm loosely engaged with the shaft, a feed roller sup-

ported by the arm, and an operative connection between the shaft and the feed roller whereby said roller is caused to rotate simultaneously with the rotation of the shaft.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HENRY C. GILLESPIE.

Witnesses:

L. F. GENTRY,

A. C. DE MARY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."