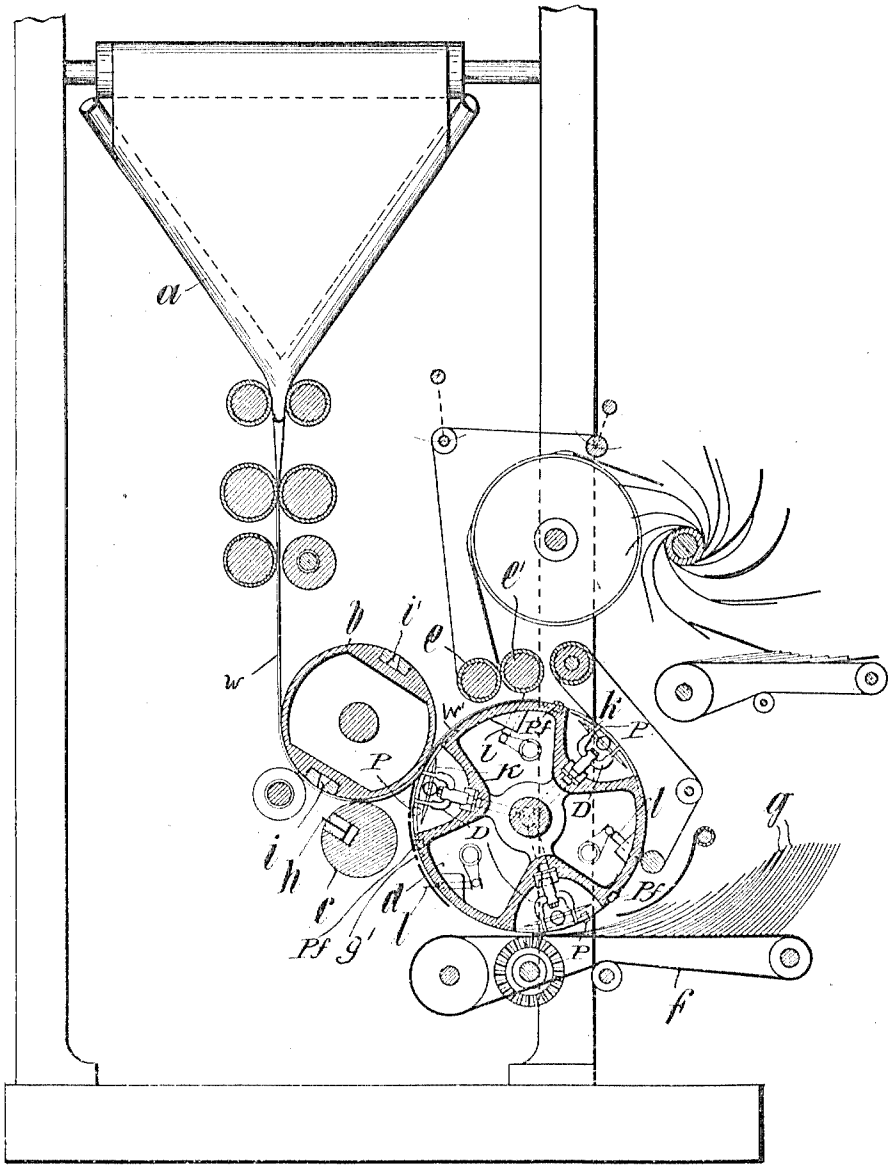
H. HÖCHNER.

PRINTING PRESS.

APPLICATION FILED SEPT. 13, 1910.

1,067,026. Patented July 8, 1913.



Witnesses:-

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by

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Att'y

UNITED STATES PATENT OFFICE.

HANS HÖCHNER, OF AUGSBURG, GERMANY, ASSIGNOR TO MASCHINENFABRIK AUGSBURG-NURNBERG A. G., OF AUGSBURG, GERMANY.

PRINTING-PRESS.

1,067,026. Specification of Letters Patent. Patented July 8, 1913.

Application filed September 13, 1910. Serial No. 581,823.

To all whom it may concern:

Be it known that I, HANS HÖCHNER, engineer, residing at Eisenhammerstrasse No. 7, Augsburg, in the Kingdom of Bavaria and German Empire, have invented certain Improvements in Printing-Presses, of which the following is a specification.

This invention relates to certain improvements in printing presses.

In connection with daily newspapers it is the general practice to insert in each copy of the paper supplements consisting, for example, of literary, industrial or agricultural intelligence, Sunday reading and so forth which are printed in advance or are obtained from a publishing firm ready for use. This work is usually carried out by manual female labor and, in the case of a newspaper with a large circulation, many assistants are required for the work.

The present invention has for its object certain mechanical means for automatically inserting these supplements while the paper is in the printing press, so that no operatives are required for this work.

The invention comprises certain improvements for the purpose of enabling the machine to take single copies of the ready-printed supplements which are supplied to it in the form of a stack and to convey them to the place where the copy of the paper in which the supplement is to be inserted, is folded in such a manner that the supplement is folded up with the newspaper and leaves the machine in the folded newspaper together with the latter.

The improved means in a machine of the kind are illustrated in the accompanying drawing in section, showing only those parts of a rotary printing press which are material to the understanding of the invention.

The operation is as follows:—The webs of paper printed and once folded run from the folder *a* to the severing cylinders *b* and *c* which act in the usual manner by means of a blade *h* engaging a recess *i* or *i'* to sever from the web lengths which are equal to one half the periphery of the cylinder *b*. These once-folded newspapers are received by the needles *l* of the assembling and folding cylinder *d* which folds them transversely a second time by means of the folding blades *k* entering between the folding rollers *e*, *e'* with the paper on top of the cylinder *d*. The assembling and folding cylinder *d* takes by means of pins P from the pile of ready printed and folded supplements *g* conveyed on the belt *f* one copy at a time, carrying same around it in such a manner that it will come beneath the rear half of the once-folded newspaper, as shown by the dash and dot line *g'*, which illustrates the position of the supplement relative to the paper *w'* cut off from the web *w*. As soon as the folding blade *k* acts the copy of the supplement is taken along with it, between the folding rollers *e*, *e'* and is enveloped in the newspaper whereupon it leaves the folding apparatus together with the folded newspaper. The supplements can be seized also by other suitable means provided on the assembling and folding cylinder *d*. The feeding need not, however, be produced directly by the assembling and folding cylinder but can be effected by other appropriate means such as intermediate or idle cylinders. Although in the drawing the feed of the supplements is shown as taking place from one side only, in practice it can take place from the other side also.

What I claim is:—

1. The combination of means for lengthwise folding a continuous web of printed paper, means for severing portions from said folded web, means for transversely folding said portions and means for successively feeding each portion to said second folding means, said feeding means having previously engaged from a stack of printed supplements a single supplement, so as to place it under the rear half of the said lengthwise folded portion, so as to cause the supplement to be smoothly enveloped by said portion while the latter is transversely folded.

2. The combination of means for lengthwise folding a continuous web of printed paper, means for severing portions from said folded web, means for transversely folding said portions and means for successively feeding each portion to said second folding means, said feeding means having previously engaged from a stack of printed supple-

ments a single supplement, so as to place it under the rear half of the said lengthwise folded portion, so as to cause the supplement to be smoothly enveloped by said portion while the latter is transversely folded, and a conveyer for delivering the supplement to the said feeding means.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HANS HÖCHNER.

Witnesses:
A. O. W. COTTER,
RICHARD LEMP.