G. W. MASCORD.

FUDGE OR LATE NEWS DEVICE FOR NEWSPAPER PRINTING PRESSES.

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1,301,072. Patented Apr. 15, 1919.

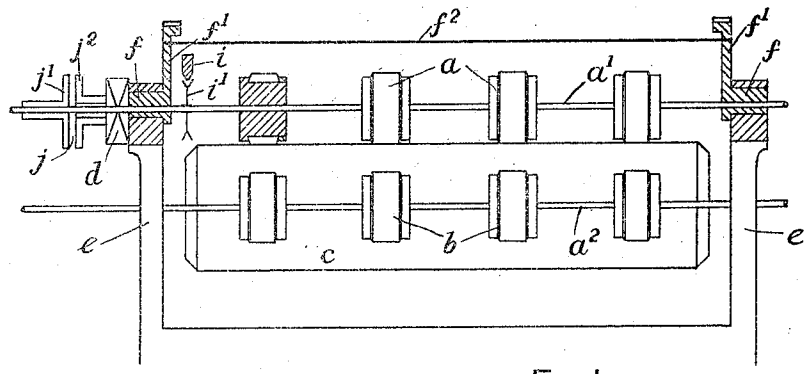


FIG. 1.

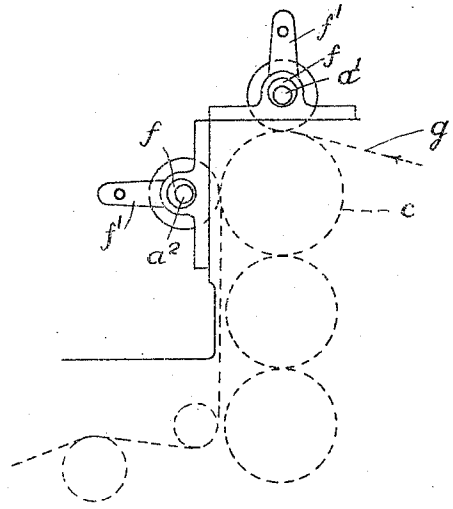


FIG. 2.

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UNITED STATES PATENT OFFICE.

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FUDGE OR LATE-NEWS DEVICE FOR NEWSPAPER-PRINTING PRESSES.

1,301,072. Specification of Letters Patent. Patented Apr. 15, 1919.

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To all whom it may concern:

Be it known that I, GEORGE WILLIAM MASCORD, a subject of the King of Great Britain and Ireland, residing at 5, The Crescent, Barnes, London, S. W., England, have invented certain new and useful Improvements Relating to Fudge or Late-News Devices for Newspaper-Printing Presses, of which the following is a specification.

This invention relates to "fudge" or late news devices for newspaper printing presses and has for its object to mount a number of such devices for printing late news on more than one page, and upon the same impression cylinder, and in such manner that they may be manipulated without stopping the press.

According to the invention I preferably mount the impression cylinder at a position above that at which the respective webs are associated and folded, and I mount the type or "fudge box" cylinders and their driving spindles upon eccentric bearings by which upon the movement of a lever the spindle upon which the cylinders or "fudge boxes" are mounted may be operated to lift the "fudge" type from contact with the impression cylinder but without taking the gear teeth of the driving mechanism entirely out of mesh; while according to the invention moreover I provide a magnetic or other suitable clutch by which the spindles upon which the type cylinders or "fudge boxes" are mounted may both be disconnected or one disconnected while the other remains in motion as may be desired and so that the type may be changed while the press continues working.

The invention comprises the construction hereinafter described.

In carrying the invention into effect in its application to a double width machine I may provide two sets of type or "fudge box" cylinders, suitable for holding "fudge boxes" for printing late news, two cylinders upon the same spindle, one set for printing say each of the first pages and the other set for printing each of the last or fourth pages. Or for a single width or two page wide press only one "fudge" for say each of the first and last pages would be used on each of the two shafts. The respective sets of type cylinders or "fudge boxes" are mounted in position above the impression cylinder and at such distance away from each other that each of the cylinders or boxes is readily accessible. Each of the spindles is geared to receive movement from the impression cylinder by toothed wheels and each spindle is mounted upon an eccentric bearing in the frame on which it is carried and an operating lever is provided by means of which the bearing may be rotated and thus the spindle and the respective type cylinders carried by it may be withdrawn from contact with the web and the impression cylinder.

A clutch is provided upon each spindle which may advantageously take the form of a magnetic clutch and by which the spindle upon which the type cylinders and "fudge boxes" are carried may be arrested in movement while the toothed wheel which remains in gear with that provided at the end of the impression cylinder continues to rotate so that thus the type cylinders or "fudge boxes" are readily lifted clear of the impression cylinder and arrested in movement, and just as readily restored to their working positions to run in register with the webs. In order to insure this result the clutch may be provided with its faces so formed that they engage only when they reach one determined position. A suitably operated hand locking brake is also fitted to each shaft or "fudge" carrying spindle for the purpose of retarding and stopping it exactly as required.

The invention is not limited to the particular form of clutch that may be employed nor is it limited to the number of spindles nor to the number of type cylinders or "fudge boxes" that may be used and it may be applied to presses of one or more pages wide and of any type.

The invention is diagrammatically illustrated according to one construction in the accompanying drawings in which—

Figure 1 is a diagrammatic plan and Fig. 2 a diagrammatic side elevation of a "fudge" or late news printing device provided according to the invention.

As illustrated in the drawings two sets of type or "fudge box" cylinders *a* and *b* are provided, four cylinders being mounted upon each spindle a^1 and a^2. Each of the spindles a^1 a^2 is geared to receive movement from the impression cylinder or from the gear of the press by spur wheels imparting movement to the pinion *d* (Fig. 1) which is mounted upon the spindle. Each spindle a^2 or a^1 is mounted in the frame or brackets *e* within which an eccentric bush or bearing

f is provided having an operating arm f^1 integrally provided therewith, by which the eccentric bush or bearing f may be partially rotated and thus the spindle a^1 or a^2 with the respective type cylinders carried by them may be brought into contact with the web g (Fig. 2) as it passes over the impression cylinder c or may be withdrawn from contact therewith when it is desired for one or other of the type cylinders or "fudge boxes" to be changed.

The operating arms f may be connected together by a rod f^2 and may be moved by means of a suitable handle or by such means as a spindle carrying an operating wheel and pinions, which latter are provided to gear with a toothed segment provided upon the upper extremity of the respective arms f^1. A suitably operated hand brake i may be fitted at the position indicated and a brake wheel i^1 may be provided for the purpose of retarding and stopping the respective spindles a^1 or a^2 when required. A clutch j may be provided at the end of each spindle a^1 or a^2 one clutch member j^1 being secured to rotate with the spindle a^1 or a^2, while the other j^2 is carried by a boss integrally provided with the pinion d.

It will be understood that such a late news device can be used for single web machines or for machines of two or more pages in width and that any number of sets of type cylinders or "fudge boxes" may be arranged each provided in the manner illustrated so that the respective sets of type cylinders or "fudge boxes" may be independently controlled for being brought into and out of contact with the impression cylinder.

I claim:—

1. In a printing press comprising the usual printing couple, a "fudge"-box cylinder, a spindle upon which said "fudge"-box is mounted, connected eccentric bearings within which the said spindle is carried, a continuously rotating impression cylinder manually operated means for the partial rotation of the said eccentric bearings for lifting the "fudge"-box cylinder from contact with the impression cylinder gear for causing the rotation of the said spindle, and means for disconnecting the said spindle from the said gear when the movement of the spindle is to be arrested, substantially as described.

2. In a printing press comprising the usual printing couple, a "fudge"-box cylinder, a spindle upon which said "fudge"-box is mounted, connected eccentric bearings within which the said spindle cylinder is carried, a continuously rotating impression clyinder manually operated means for the partial rotation of the said eccentric bearings for lifting the "fudge"-box cylinder from contact with the impression cylinder, gear for causing the rotation of the said spindle, and a clutch by which the spindle of the "fudge"-box cylinder may be disconnected from the said gear, substantially as described.

3. In a printing press comprising the usual printing couple, a "fudge"-box cylinder, a spindle upon which said "fudge"-box cylinder is mounted, connected eccentric bearings within which the said spindle is carried, a continuously rotating impression cylinder manually operated means for the partial rotation of the said eccentric bearings for lifting the "fudge"-box cylinder from contact with the impression cylinder, gear for causing the rotation of the said spindle, a clutch by which the spindle of the "fudge"-box cylinder may be disconnected from the gear of the press, and a brake by which the rotation of the "fudge"-carrying cylinder may be arrested, substantially as described.

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