No. 838,373. PATENTED DEC. 11, 1906.

G. BLUEN.

REEL FOR COPYING PRESSES.

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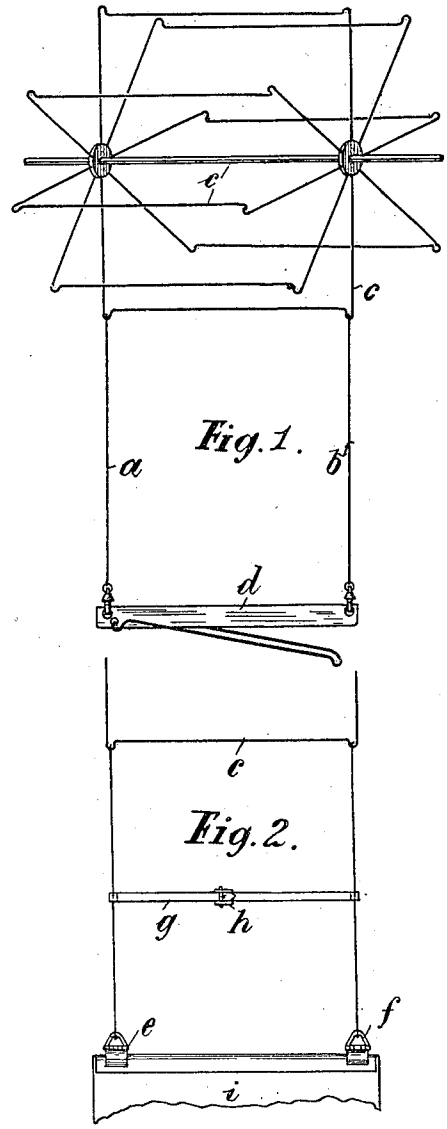


Fig. 1.

Fig. 2.

WITNESSES:

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REEL FOR COPYING-PRESSES.

No. 838,373. Specification of Letters Patent. Patented Dec. 11, 1906.

Application filed February 16, 1906. Serial No. 301,479.

To all whom it may concern:

Be it known that I, GEORG BLUEN, a citizen of Germany, residing at 130 Leipzigerstrasse, Berlin, Germany, have invented new and useful Improvements in Reels for Copying-Presses and the Like, of which the following is a specification.

The subject of my invention is an improvement in copying-presses or paper-roll photographic-printing machines or the like, and relates more particularly to the means for securing the paper web to the winding-reel.

For the purpose of facilitating winding up of the paper after printing it has hitherto been the practice to attach a ribbon to one of the peripheral cross-bars of the reel, the other end of the ribbon being furnished with a lever-clamp to grip the paper web whose end has to be folded into a triangular shape. The disadvantage of this arrangement is that the ribbon rolls up with the paper, so that it is not possible to fix the latter anew when the web of printing-paper to be wound up has been interrupted, for instance, for the purpose of removing a print. This drawback is overcome according to my invention, the essential feature of which is that in place of a ribbon which is wound up with the paper two lateral cords or like flexible means are employed connected to the ends of one of the cross-bars of the reel, the other end of the cords being secured to a single clamping-bar or to two clips. This latter connection is detachable, swivel-hooks or like means being used to connect the gripping means to the cords. In this manner the possibility is presented in case of need of the gripping means being detached from the paper web and of being drawn out laterally and then fixed to the two ends of the web, which is to be further wound up.

In the accompanying drawings, Figure 1 shows one form of my new device. Fig. 2 shows a modification of the same.

With my new devices shown in Figs. 1 and 2 instead of a single broad ribbon two lateral cords *a b*, narrow strips, or like flexible members are secured to a cross-bar of the reel *c*. The other end of each cord *a b* is detachably connected either to a clamp-bar *d*, extending across the entire breadth of the paper-web *i*, or to two clips *e f* by means of swivel-hooks or other suitable means.

In the form of construction shown in Fig. 2 suitable means *g* are preferably provided to hold the cords *a b* together, the meeting ends of the said means being buckled or otherwise detachably secured together at *h*. If certain copies are cut from the paper web *i* and the latter has, therefore, to be secured anew, it is merely necessary from the side to detach the end of the paper web secured to the reel and (depending upon the form of construction adopted) either to release the clamp-bar *d*, Fig. 1, from the cord at the one side in order that the said clamp-bar may be drawn out of the rolled web toward the opposite side or to draw out the two clips *e f*, Fig. 2, at different sides without their having to be detached from the ends of the cords. The paper web can now be fastened anew without any trouble. The length of the cords is so selected that on making a new connection after cutting out certain prints the clamp-bar *d* or the two clips *e f* reach nearly up to the place of printing—that is, approximately up to the delivery-roller located in front thereof—in order that the paper end may not have to be approached to the clamping means, whereby waste of paper would be accasioned.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a reel for copying-presses, photographic-printing apparatus or the like, in combination, flexible means secured to the periphery of the reel; and means adapted to grip the paper web, attached to the said flexible means adapted to be withdrawn laterally after the web has been rolled up; substantially as described.

2. In a reel for copying-presses, photographic-printing apparatus or the like, in combination, two flexible members secured to the periphery of the reel; and means adapted to grip the paper web, detachably connected to the said flexible means adapted to be withdrawn laterally after the web has been rolled up; substantially as described.

3. In a reel for copying-presses, photographic-printing apparatus or the like, in combination, two flexible members secured to the periphery of the reel; and clips, adapted to grip the paper web, secured to the ends of each of the said members, adapted to be withdrawn laterally after the web has been rolled up; substantially as described.

4. In a reel for copying-presses, photographic-printing apparatus or the like, in combination, two flexible members secured to the periphery of the reel; clips, adapted to grip the paper web, secured to the ends of

each of the said members adapted to be withdrawn laterally after the web has been rolled up; and detachable means, located parallel with the reel-axis, connecting the flexible members together; substantially as described.

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

GEORG BLUEN.

Witnesses:
HENRY HASPER,
HANS HEIMANN.