(No Model.)

H. BAKER.

MACHINE FOR STRIPPING PRINTERS' ROLLERS.

No. 319,544. Patented June 9, 1885.

Fig. 1.

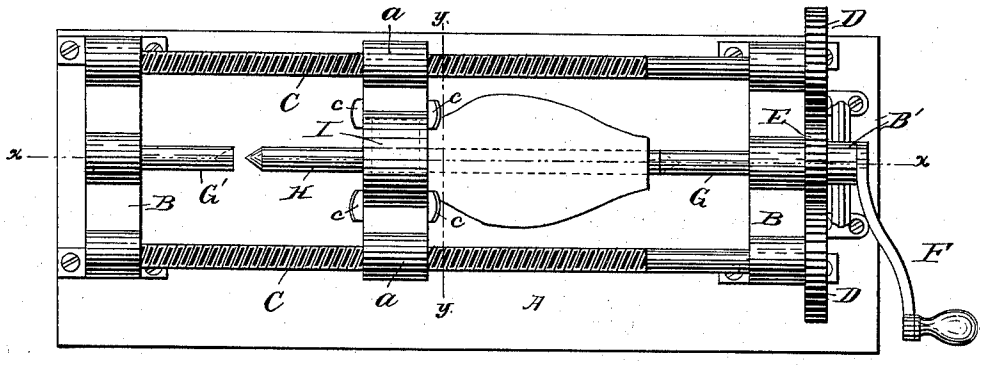


Fig. 2.

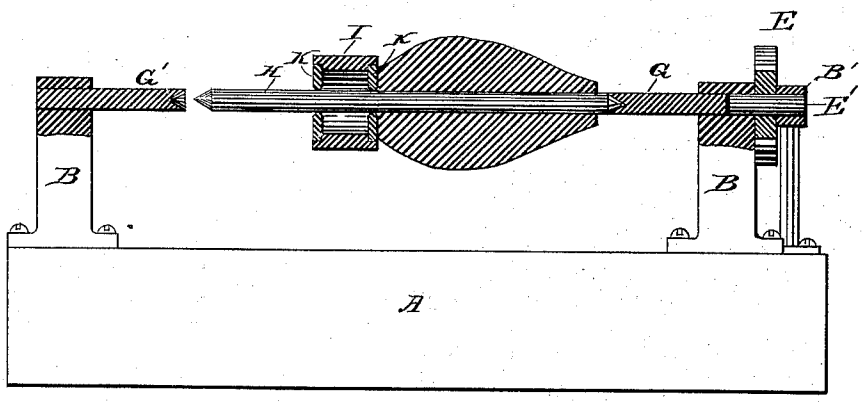
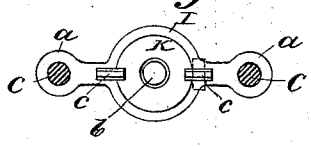


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY BAKER, OF CATSKILL, NEW YORK.

MACHINE FOR STRIPPING PRINTERS' ROLLERS.

SPECIFICATION forming part of Letters Patent No. 319,544, dated June 9, 1885.

Application filed April 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY BAKER, of Catskill, in the county of Greene and State of New York, have invented a new and useful Improvement in Machines for Stripping Printers' Rollers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improved machine for stripping printers' rollers, and has for its object to facilitate the removal of the coating of the roller when it is worn out, so that the roller-rod may be recoated. It consists in the combination of mechanism, as hereinafter fully described, whereby the covering material upon the central rod of the roller is stripped therefrom by forcing longitudinally over the rod a disk adapted to encircle the same closely.

In the accompanying drawings, Figure 1 is a top view of my improved roller-stripper. Fig. 2 is a vertical longitudinal section through the same, in line *x x* of Fig. 1, and Fig. 3 is a transverse section through the screws, in line *y y* of Fig. 1, illustrating the traveling stripper in elevation, the roller to be stripped being removed.

Upon a base-plate, A, and adapted to revolve freely within journal-bearings in brackets or standards B B, are mounted two parallel threaded shafts, C C. Upon the end of each of these screw-shafts C C, which project beyond their journal-bearings, is secured a pinion or cog-wheel, D, to rotate therewith.

An intermediate pinion, E, secured upon a suitable pivotal axis, E′, is mounted to rotate upon standards or pillow-blocks B′, so as to gear into both of the cog-wheels D D. The outer end of the axial shaft E′ is fitted with a crank, F, by means whereof power is applied to the machine. The cog-wheels D D are of equal diameter, so that the shafts C C shall both rotate at the same speed when driven by the pinion E.

Upon the standards B B, and midway between the screw-shafts C C, suitable bearings, G G′, are formed to receive and support one end of the core or central rod, H, of a printer's roller. Each bearing consists, preferably, of a rod or bar projecting inwardly from the standard B, and each is recessed at its outer end to form a seat for the end of the roller-rod. These bearings may either be fixed rigidly to the frame or may be threaded to work through a threaded opening in the standard, so as to adapt them for adjustment to engage rollers of different lengths.

The stripping device consists of a frame or carrier, I, which, by preference, is cylindrical in form, and is mounted centrally between two threaded sleeves or nuts, *a a*, running upon the screw-shafts C C, by means of arms connecting the nuts with the frame.

Within the cylindrical frame I, and transversely to its axis, are mounted one or more detachable centrally-perforated plates or disks, K K, the perforation *b* in each being of a slightly larger diameter than the central rod, H, of the printing-roller. These plates or disks K K are held in position within the frame I by means of buttons *c c*, pivoted upon the frame, and which will admit of the disks being removed at pleasure, so that plates having apertures of different diameters to suit roller-rods of different sizes may be used with the same frame. The outer edge of each aperture *b* in the disks K K is preferably beveled or countersunk, to facilitate the insertion of the end of the rod H therein.

In using my improved stripping device the frame or carrier I, with the disks K K in position therein, is moved by the action of the screw-shafts to one end of the machine. One end of the axial rod or core H of the roller is then inserted in the recess or seat in the end of the fixed bearing-bar G, and by a rotation of the screws C C, produced by turning the crank F, the disks K K are passed over the opposite end of said axial rod to embrace the same. A continued rotation of the screw-shafts will then cause the frame I to move forward, so that the disks K shall slide upon the axial rod H of the roller, and as the rod is closely embraced by the disks, the coating thereon will be stripped therefrom, so that the rod will pass out from the opposite side of the stripping-frame perfectly clean. The stripping-frame having thus been carried to the opposite end of the machine, the next roller to be stripped may be inserted on the other

side of the stripper to be supported by the bearing-bar G′, so that the return movement of the frame may be utilized in stripping this roller. A roller may thus be operated at each movement of the stripper from one end to the other of the screw-shafts C C.

It is evident that the machine may be readily modified so that the frame I shall be fixed and the support G, upholding the outer end of the roller, be made to travel, by means of an endless screw or screws, to and from the frame, so as to force the core through the perforated plate inserted therein; and I contemplate such a reversal in the mode of operating the devices for stripping the roller and in the construction of the machine to accomplish the same, as a part of my invention.

I claim as my invention—

1. In a machine for stripping printers' rollers, the combination of a perforated plate adapted to receive and closely embrace the core of the roller with parallel screw-shafts mounted to rotate on each side thereof, and with nuts traveling upon said screws, by which the plate is moved back and forth along the same to or from a bearing for one end of the roller, substantially in the manner and for the purpose herein set forth.

2. The combination, in a machine for stripping printers' rollers, with a traveling frame mounted between a pair of screw-shafts to be moved by their rotation to or from a stationary support from one end of the roller, of detachable perforated stripping-plates, adapted to be fitted and secured in or removed from the frame and to embrace the core of the roller to be stripped, substantially in the manner and for the purpose herein set forth.

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

HENRY BAKER.

Witnesses:
SAMUEL A. BAKER,
WM. JOESBURY.