No. 619,803. Patented Feb. 21, 1899.

F. SUCCIE.

GUIDE FLANGE FOR PAPER ROLLING MACHINERY.

(Application filed Apr. 9, 1898.)

(No Model.)

FIG. 1.

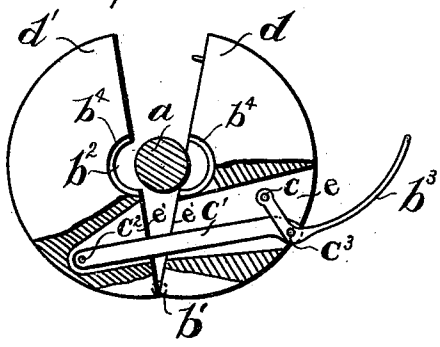
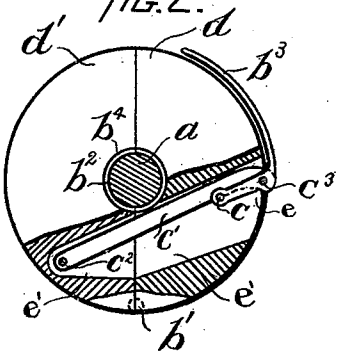


FIG. 2.



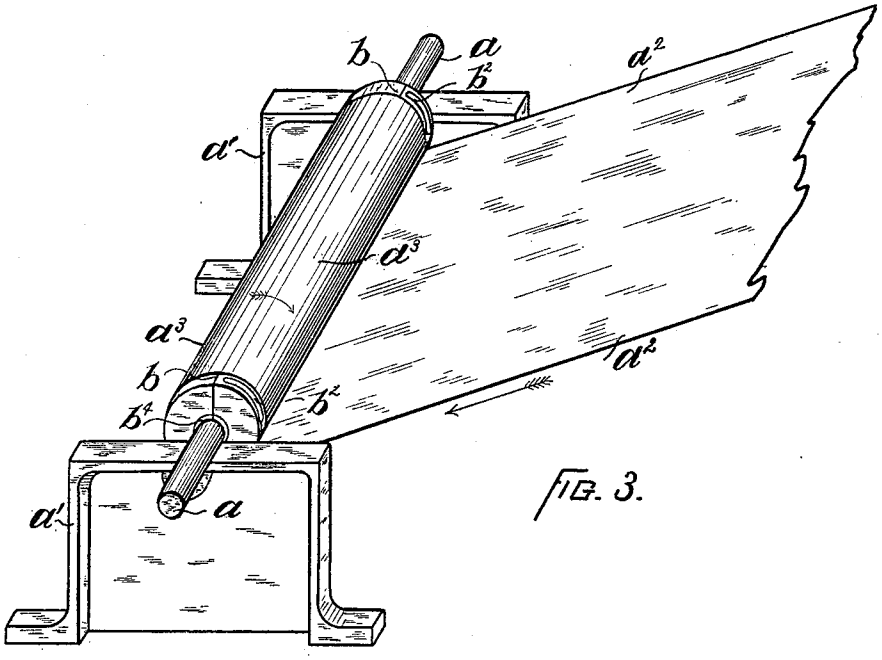


FIG. 3.

WITNESSES.
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by his attorney
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRED SUCCIE, OF BREWER, MAINE.

GUIDE-FLANGE FOR PAPER-ROLLING MACHINERY.

SPECIFICATION forming part of Letters Patent No. 619,803, dated February 21, 1899.

Application filed April 9, 1898. Serial No. 676,990. (No model.)

To all whom it may concern:

Be it known that I, FRED SUCCIE, a citizen of the United States of America, and a resident of Brewer, Penobscot county, and State of Maine, have invented certain new and useful Improvements in Guide-Flanges for Paper-Rolling Machinery, of which the following is a specification.

In a machine for making paper the finished product as it leaves the cylinders of the machine is wound upon a shaft to form a roll, and in practice difficulty is experienced in forming said roll with even ends as said paper is wound upon said shaft.

The object of this invention is to provide a guide for said paper against which the edges thereof bear as it is wound upon said shaft, so that a roll having even ends will be formed, and said guide may be adjustably secured to said shaft and constructed and arranged to be quickly placed thereon or removed therefrom, and in practice two such guides will be employed and arranged upon said shaft a distance apart equal to the width of said sheet of paper to be rolled. In accordance with this invention said guide consists of a block or flange having a smooth face for the edges of said paper to bear against, and said block or flange is formed in two sections, hinged together, having a hole for said shaft, and means is provided to open or spread apart said sections, when said block may be placed upon said shaft, and to thereafter press said sections against said shaft to secure said block thereto.

Figure 1 is a side elevation of the guide with its sections spread apart. Fig. 2 is a side elevation of the guide with its sections closed against said shaft. Fig. 3 is a perspective view of a shaft and roll of paper wound thereon, showing the guides in position.

The letter a denotes a shaft which turns in bearings formed in supporting-frames a', and a^2 a sheet of paper as it is delivered from a paper-making machine. Means (not shown in the drawings) are provided for rotating said shaft a to wind said paper a^2 thereon, forming the roll of paper a^3.

The letter b denotes my improved guide mounted upon said shaft a, and in practice two such guides will be employed and arranged upon said shaft a a distance apart equal to the width of said sheet of paper a^2 to be rolled thereon, as shown in the drawings in Fig. 3, and said guide b may be made of wood or metal and is herein shown as a block or flange having a hole b^2 for said shaft a, and said hole b^2 may have a lining, of rubber or similar material b^4, to prevent said guide from slipping out of place when secured to said shaft. To quickly secure said guide b in position upon said shaft a, remove it therefrom, or change its position thereon to accommodate a different width of paper, said guide b is formed in two parts or sections d d', hinged together at one end, as at b', and means is provided to open or spread apart said sections d d', when said guide may be placed upon said shaft a, which fits into said hole b^2, and to thereafter close said sections d d' and press the rubber lining b^4, secured to the sides of said hole b^2, against said shaft a to secure said guide b thereto, consisting of a lever b^3, pivoted to one section, d, at c, having a bar c', pivoted to said other section, d', at c^2 and to said lever b^2 at c^3, said parts being so constructed and arranged that when said lever b^3 is moved in one direction said bar c' will spread apart said sections d d', as shown in Fig. 1, and when said lever b^3 is moved in the opposite direction said bar c' will draw said sections d d' together against said shaft a and lock them, securing said guide b to said shaft a. Said lever b^3 is pivoted in a cavity e, formed in said section d, and said bar c' is constructed and arranged to work in a cavity e', formed in said sections d d', and when said guide b is secured in place upon said shaft a said lever b^3 will be moved into a position against the circumference of said guide b, as shown in Figs. 2 and 3. By forming said guide b in two sections it is not necessary to stop said shaft a from turning to place said guide in position upon said shaft.

I do not wish to limit the invention of the construction herein shown to a guide for the paper in a machine for winding paper into rolls, as it is evident said construction may be applied to any use wherein it is desired to provide a block which may be quickly secured to, removed from, or adjusted upon a shaft—as, for example, said construction may

be applied to a pulley, and in such case when said sections d d' are closed together against said shaft a to secure said pulley thereto said lever b^3 will not project beyond the surface of said circumference of said pulley to interfere with the belt thereon.

I claim—

1. A guide-flange formed in two sections, a shaft, a hole through said guide-flange for said shaft, and a device to spread apart said sections when said guide-flange may be placed upon said shaft and to press said sections against said shaft to frictionally secure said guide-flange thereto, substantially as described.

2. In a machine for rolling paper, a shaft upon which the paper is rolled, a guide-flange for said paper formed in two sections, a hole through said guide-flange for said shaft and means to spread apart said sections when said guide-flange may be placed upon said shaft and to press said sections against said shaft to frictionally secure said guide-flange thereto, consisting of a lever pivoted to one section and a bar pivoted to the other section and to said lever so that when said lever is moved in one direction said sections will be spread apart and when said lever is moved in the opposite direction said sections will be closed together against said shaft, substantially as described.

Signed by me, at Bangor, this 7th day of April, 1898.

FRED SUCCIE.

Witnesses:
KATIE M. LOGAN,
GEORGE H. WORSTER.