Sept. 16, 1924. 1,508,477

A. F. SCHMIDT

END FLANGE ATTACHMENT FOR HORIZONTAL WARPING BEAM ROLLS

Filed Jan. 27, 1923 2 Sheets-Sheet 1

Fig. 1.

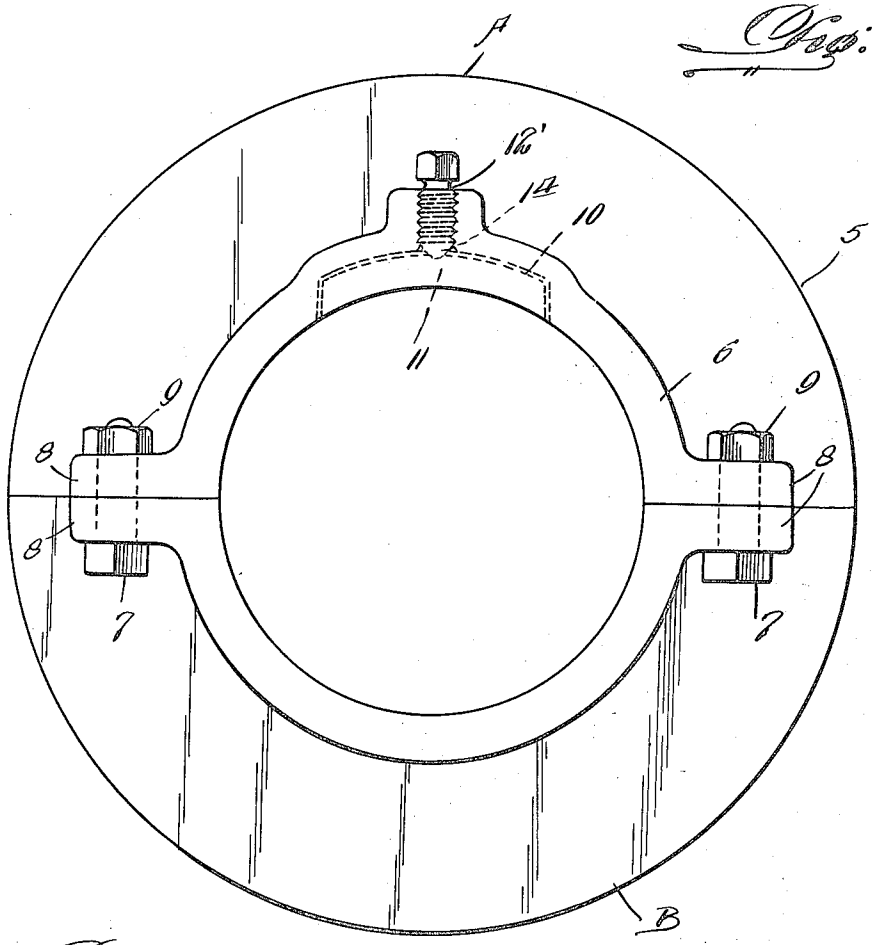
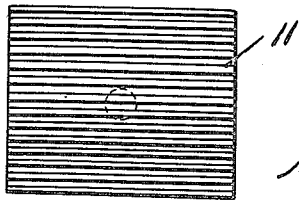


Fig. 2.



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Fig. 2.

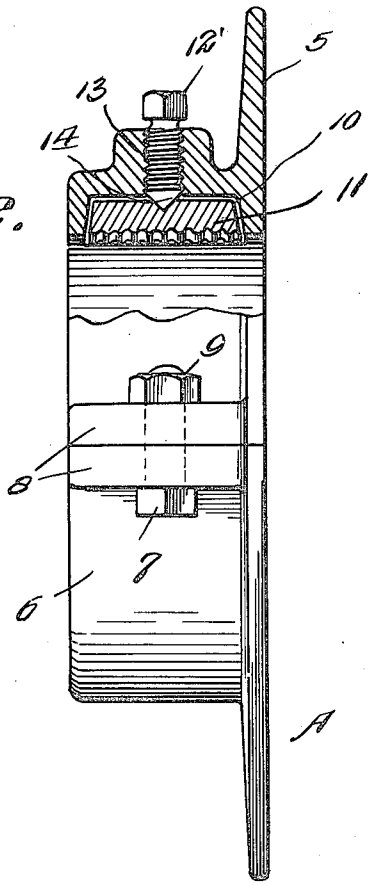
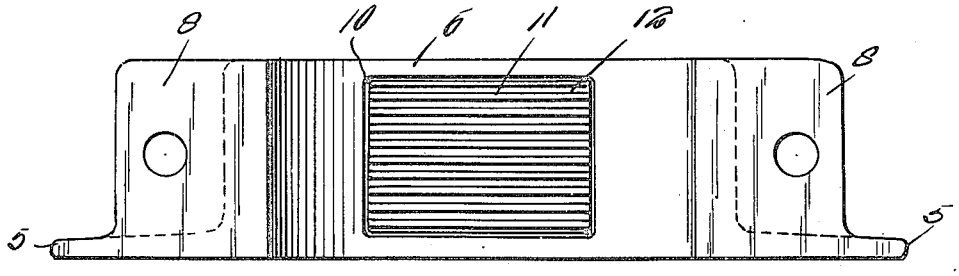


Fig. 3.



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UNITED STATES PATENT OFFICE.

ALBERT F. SCHMIDT, OF HOBOKEN, NEW JERSEY.

END-FLANGE ATTACHMENT FOR HORIZONTAL WARPING-BEAM ROLLS.

Application filed January 27, 1923. Serial No. 615,220.

To all whom it may concern;

Be it known that I, ALBERT F. SCHMIDT, a citizen of the United States, residing at Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in End-Flange Attachments for Horizontal Warping-Beam Rolls, of which the following is a specification.

The primary object of my said invention is the provision of an end flange attachment for horizontal beam rolls of textile machines, whereby the silk, cotton and wool thread may be properly beamed before it is woven into cloth.

By applying my improved flange to the opposite ends of these beam rolls, the enormous amount of paper that is now used in this beaming operation is dispensed with.

A further object of my invention resides in the provision of such a flange and beam rolls, wherein the same is comparatively simple of construction, substantially inexpensive of manufacture, and such a flange that may be attached to and detached from beam rolls of varying diameters in a simple and expeditious manner.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawings, the invention residing in the construction, combination, and arrangement of parts as claimed.

In the drawings forming part of this application, like numerals of reference indicate similar parts in the several views, and wherein:—

Figure 1 is a front elevational view of an end flange for beam rolls constructed in accordance with this invention.

Figure 2 is a side elevational view of the same partly in cross section.

Figure 3 is a plan view of one of the flange sections, and

Figure 4 is a bottom plan view of a plate member used in conjunction with the flange.

With particular reference to the drawings, my device consists essentially of a relatively large plate or disk 5 having a central enlarged opening therein, this opening being surrounded on its outer side by a laterally projecting collar or sleeve 6.

As clearly shown, the flange includes an upper and lower half section A and B secured together upon the end of the beam roll by headed bolts 7 passing through alined openings in laterally extending portions 8 formed upon opposite ends of each section of the said collar or sleeve 6. The upper ends of the bolts 7 are screw threaded for receiving nuts 9.

The object of manufacturing these flanges in two sections is for the purpose of permitting the same to be readily placed upon the opposite ends of the beam rolls without disturbing these rolls, that is, removing the same from their supports. Further, it is to be understood that each end of the beam roll receives one of my flanges, these flanges to be secured thereon in a manner hereinafter described at varying distances apart to suit the operator. The under surface of the collar or sleeve portion of the top section A is centrally formed with an arcuate slot 10 in which is loosely received an arcuate shaped wedge plate 11, the under surface of which is knurled or milled as at 12, which arcuate plate is adapted to be wedged into the wooden beam roll by a set screw 12′ adjustable in a screw threaded hole 13 in the central portion of the half sleeve of the top section A. The lower end of this set screw 12′ is pointed as at 14 for engagement with a similar shaped notch or socket in the top face of said arcuate plate.

In view of the above description, it will at once be apparent that one of these beam flanges may be provided upon opposite ends of the beam roll and retained in adjusted position thereon by forcing the knurled or milled face 12 into engagement with the face of the beam roll, and it will be further understood that these end flanges may be readily attached to or detached from these rolls in a simple and easy manner.

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

An end flange for beam rolls comprising a flange member having a hub portion disposed at the side thereof and which is adapted to be mounted upon a beam, said hub portion being provided at its interior with a recess having rectangularly disposed walls, the side walls of the recess converging toward each other, and the end walls of the recess being parallel, a plate located in the recess and having a concaved side adapted to lie opposite the beam, said concaved side being roughened by a series of corrugations

which lie parallel with the side edges of the plate, the plate having plane parallel end walls which fit snugly against the end walls of the recess, the plate having converging side edge walls which lie opposite the converging side walls of the recess, and a screw passing transversely through the hub and engaging the plate to force the ridges in intimate contact with the beam transversely thereof and parallel with the outer face of the flange.

In testimony whereof I affix my signature

ALBERT F. SCHMIDT.