

J. A. MONROE.
 PAPER MAKING MACHINE.
 APPLICATION FILED APR. 12, 1910.

968,251.

Patented Aug. 23, 1910.

2 SHEETS—SHEET 1.

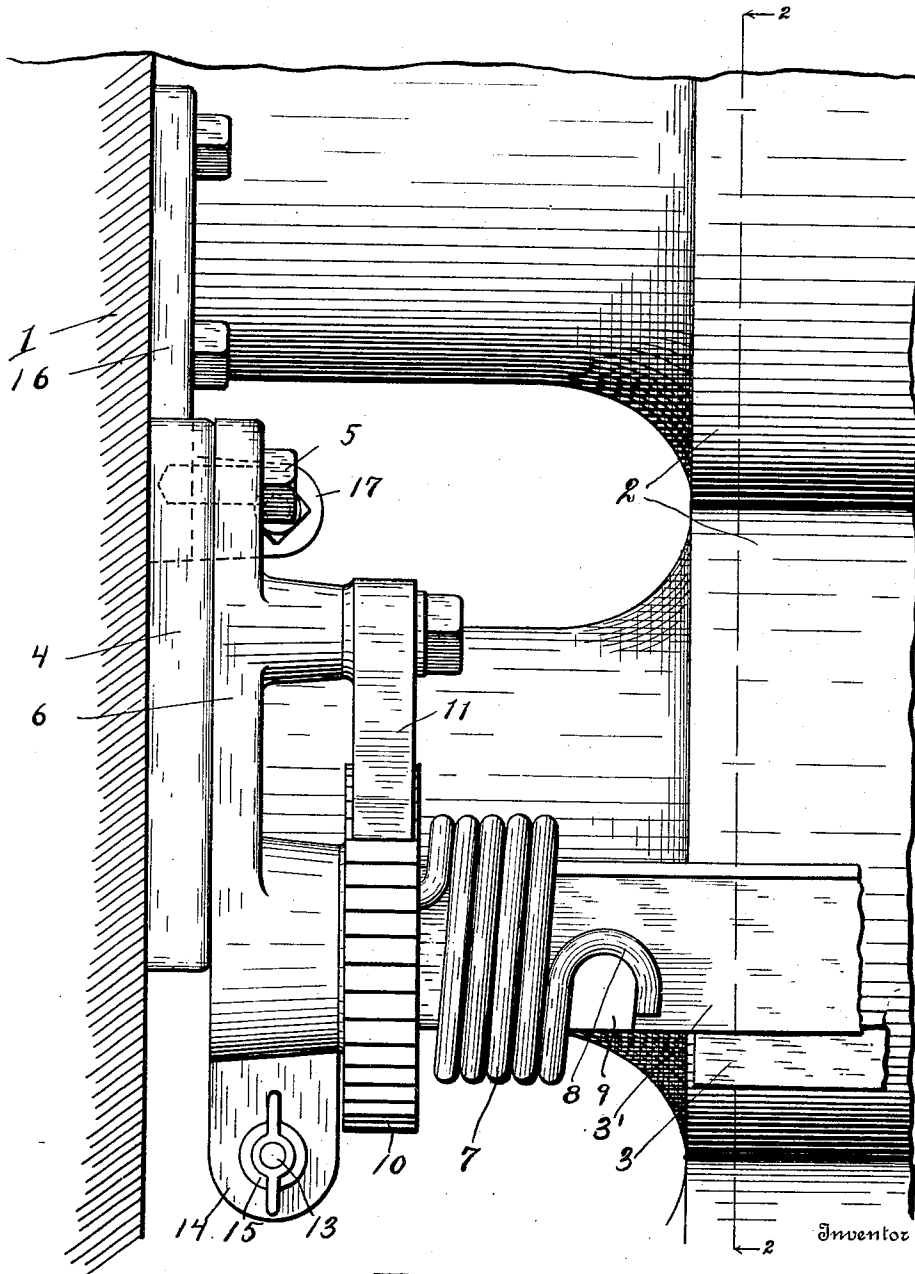


Fig. 1.

Witnesses

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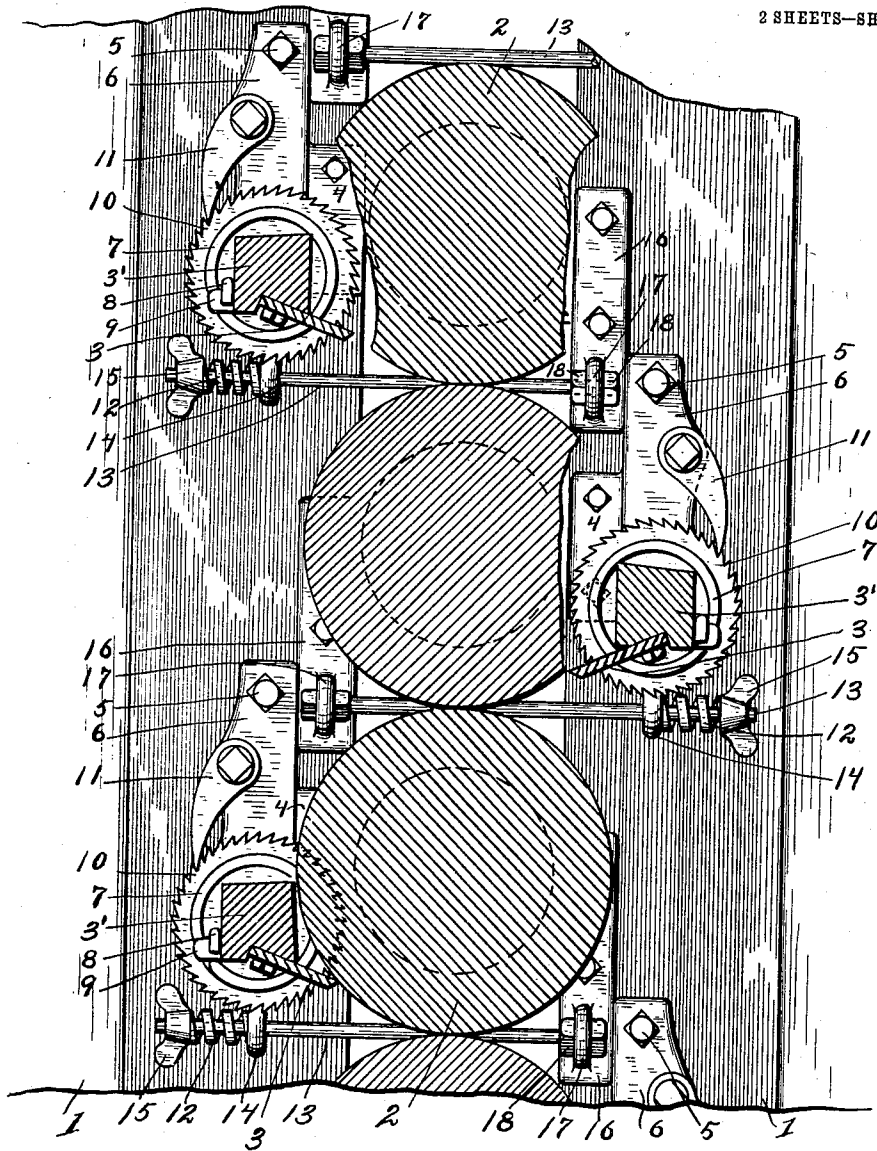


Fig. 2.

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UNITED STATES PATENT OFFICE.

JAY A. MONROE, OF OTSEGO, MICHIGAN, ASSIGNOR OF ONE-HALF TO CLINTON W. ULRICH, OF OTSEGO, MICHIGAN.

PAPER-MAKING MACHINE.

968,251.

Specification of Letters Patent.

Patented Aug. 23, 1910.

Application filed April 12, 1910. Serial No. 554,949.

To all whom it may concern:

Be it known that I, JAY A. MONROE, a citizen of the United States, residing at Otsego, Michigan, have invented certain new and useful Improvements in Paper-Making Machines, of which the following is a specification.

This invention relates to improvements in paper making machines.

10 The main objects of this invention are to provide in a paper making machine an improved doctor bar or scraper for the rolls or cylinders.

15 Further objects and objects relating to structural details will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

20 The invention is clearly defined and pointed out in the claims.

The structure described constitutes one effective embodiment of my invention.

25 Other embodiments would be readily devised by those skilled in the art.

A structure constituting an effective and preferred embodiment of the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

30 Figure 1 is a detail plan view of a structure embodying the features of my invention. Fig. 2 is a detail vertical section taken on a line corresponding to line 2—2 of Fig. 1, looking in the direction of the little arrows at the end of the section line.

In the drawing, similar reference numerals refer to similar parts in both views.

40 Referring to the drawing, the frame 1 is shown in conventional form only. The rolls or cylinders 2 are suitably supported in the frame 1. The doctor or scraper blades 3 are preferably mounted on the bars 3', as illustrated. To support these blade bars 3' I provide brackets 4 which are secured upon the frame as illustrated. Secured to these brackets by means of the bolts 5 are hangers 6 in which the bars 3' are pivotally mounted. The blades 3 are held yieldingly in contact with the rolls by means of the springs 7 which are provided with hooks 8 at one end to engage the lugs 9 on the blade bars, the

other ends of the springs being secured to the ratchet wheels 10, which are mounted on the hangers 6. Pawls 11 are provided 55 for these ratchet wheels 10 so that tension on the springs 7 can be nicely regulated. The blades are adjustably and yieldingly supported by means of tension springs 12 arranged on the tension rods 13, with their 60 inner ends bearing against the ears 14 on the hangers, through which the rods are arranged. On the rods are winged nuts 15 for adjusting the tension of the springs. The rods 13 are supported by brackets 16 65 having ears 17 thereon, through which the rods are arranged, clamping nuts 18 being provided for securing the rods on the ears. The brackets 16 are arranged opposite the hangers. (See Fig. 2.) By this simple arrangement of parts, the tension on the doctor or scraper blades can be nicely regulated and they are supported to be adjusted relative to the rolls as conditions may require.

I have illustrated and described my improvement in the form in which I have embodied the same in practice, which form I find very satisfactory. I am, however, aware that the structural details can be considerably varied without departing from the 80 spirit of my invention.

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

1. In a paper making machine, the combination with the frame, roll and scraper blade, of a support for said blade, comprising a bracket mounted on said frame; a blade hanger pivotally mounted on said bracket; a coiled spring connected at one 90 end of said blade; a ratchet mounted on said hanger to which the other end of said spring is connected; a pawl for said ratchet mounted on said hanger; a tension rod; a bracket therefor, arranged oppositely of said 95 hanger, said tension rod being arranged through said hanger; a spring on said tension rod arranged to bear on said hanger; and an adjusting nut for said rod for regulating the tension of said spring. 100

2. In a paper making machine, the combination with the frame, roll and scraper blade, of a support for said blade, comprising a bracket mounted on said frame; a

blade hanger pivotally mounted on said
bracket; a tension rod; a bracket therefor
arranged oppositely of said hanger, said
tension rod being arranged through said
5 hanger; a spring on said tension rod ar-
ranged to bear on said hanger; and means
for adjusting the tension of said spring.

In witness whereof, I have hereunto set
my hand and seal in the presence of two
witnesses.

JAY A. MONROE. [L. s.]

Witnesses:

HOWARD E. WHITNEY,
GEORGE W. TAYLOR.