C. F. GEGENHEIMER.

CLOTH FEEDING ATTACHMENT FOR TENTERING MACHINES.

APPLICATION FILED JULY 23, 1908

911,490. Patented Feb. 2, 1909.

FIG. 1

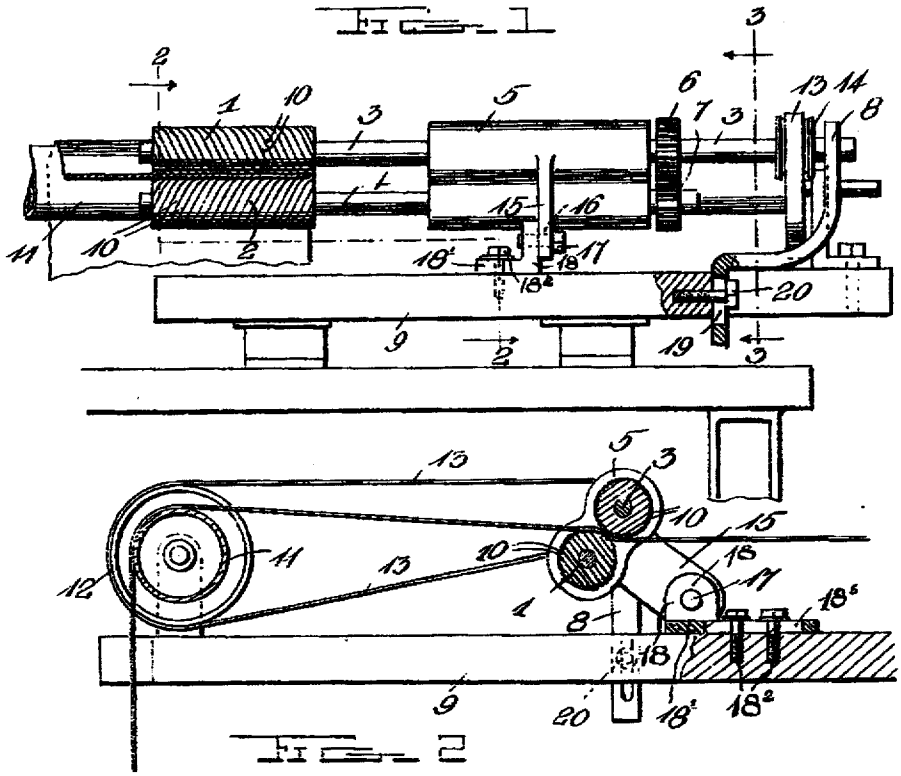
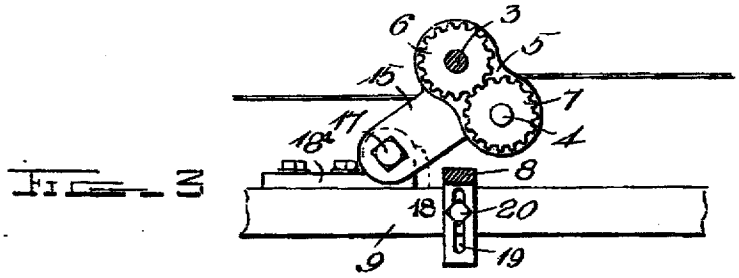


FIG. 2

FIG. 3



Witnesses

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CLOTH-FEEDING ATTACHMENT FOR TENTERING-MACHINES.

No. 911,490. Specification of Letters Patent. Patented Feb. 2, 1909.

Application filed July 23, 1908. Serial No. 444,368.

To all whom it may concern:

Be it known that I, CHARLES F. GEGENHEIMER, a citizen of the United States, residing at Lawrence, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Cloth-Feeding Attachments for Tentering Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in cloth feeding attachments for tentering machines, and has for its object to effect the feeding of the cloth, as stated, in a simple and effective manner, and with less labor and expense than has heretofore been practicable; and to carry out these ends in a simple and expeditious way.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claims.

In the accompanying drawing, illustrating the preferred embodiment of my invention, Figure 1 is a front elevation thereof; Fig. 2 is an end elevation of the same; and Fig. 3 is a vertical sectional view produced on the line 3—3 of Fig. 1.

In carrying out my invention, I preferably arrange in connection with what are termed "cloth tentering machines" opposed rolls, 1 and 2, whose shafts, 3 and 4, pass through and are suitably supported in a bearing, 5, said bearing being provided with circular openings for that purpose, and said shafts being intergeared, as at 6 and 7, one of said shafts being extended and supported upon a bracket, 8, suitably supported upon the side of the top rail 9 of the tentering machine.

The rolls, 1 and 2, are spirally or obliquely ribbed or grooved, as at 10, with their grooves or ribs extending in reverse directions, and which rolls are geared, as above noted, to travel or rotate in an opposite direction to the movement of the cloth as it is being fed to the tentering machine. Said rolls are arranged so as to engage and receive between them the lateral or selvage edges of the cloth for removing wrinkles therein or turned portions thereof, thus providing for controlling the suitable feeding of the cloth in a straight and smooth manner to the cloth tentering machine, the cloth initially passing over a roll, 11, suitably journaled in position contiguous to the rolls 1 and 2, between which the cloth is passed and from thence to the tentering machine. Said roll, 11, is driven by the frictional contact of the cloth therewith. The shaft or roll, 11, is provided with a wheel or pulley, 12, encompassed by a belt, 13, also engaging a pulley, 14, upon the shaft of the roll, 1, for imparting the required rotation to the rolls 1 and 2, said rolls being rapidly driven in suitably feeding the cloth as aforesaid.

The bearing or support, 5, for the shafts, 3 and 4, of the rolls, 1 and 2, has a downward extension, or arm, 15, having an opening, 16, therethrough, receiving a holding and adjusting bolt, 17, suitably arranged for its effective retention in place, said bolt passing through an upstanding ear 18 formed at the inner end of a flat support 18^1 mounted for longitudinal adjustment upon the top rail 9 of the tentering machine and held at the proper adjustment by retention screws 18^2 extending through a longitudinal slot 18^4 in the body of the support and screwing into the top rail. The purpose of the aforesaid contrivance is to provide for the varying of pressure upon the cloth passing between the rolls, 1 and 2, as occasion may require, said bearing, 5, being movable or adjustable by suitably loosening its holding bolt, 17, and again tightening said bolt, as will be readily understood. The bracket, 8, receiving the shaft, 3, is also adapted to be accordingly moved or adjusted with the adjustment or movement of the bearing, 5, said bracket having a slot, 19, therein receiving its holding bolt or fastening, 20, for that purpose. As above noted, by means of the aforesaid attachment, all manual assistance or labor is dispensed with in effecting the feeding of the cloth to the tentering machine, which has heretofore been impracticable, such feeding having been effected by manual assistance, in instances requiring one boy, and in other instances requiring two or like help for that purpose, thus reducing expense and labor in feeding the cloth as stated, and simplifying the operation thereof.

From the foregoing description, taken in connection with the accompanying drawing, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be

resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

While I have shown and described my attachment as used in connection with a cloth tentering machine, it is evident that it may be used in connection with any machine where it is desirable to keep the lateral or selvage edges of the cloth perfectly smooth or free of wrinkles or upturned portions.

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

1. A device of the character described, comprising opposed diagonally or spirally ribbed rolls having their shafts intergeared, a bearing for said shafts, a pulley on one of the shafts, an additional pulley belted to the aforesaid pulley, the first referred to pulley being carried by a roll driven by frictional contact of the cloth therewith fed between the aforesaid rolls.

2. A device of the character described, comprising opposed ribbed or grooved rolls having their shafts intergeared, an adjustable unitary bracket or bearing for said shafts, and an additional bracket receiving an extension of one of said shafts and adjustably held in position.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES F. GEGENHEIMER.

Witnesses:

WALTER F. HATCH,

HAROLD W. CATE.