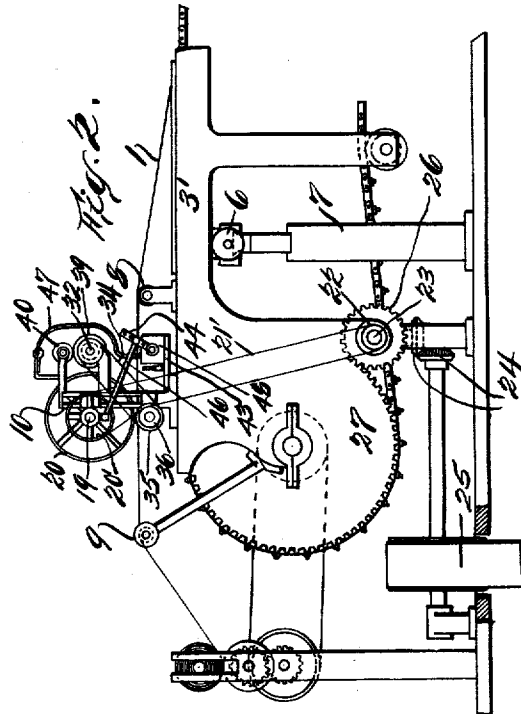
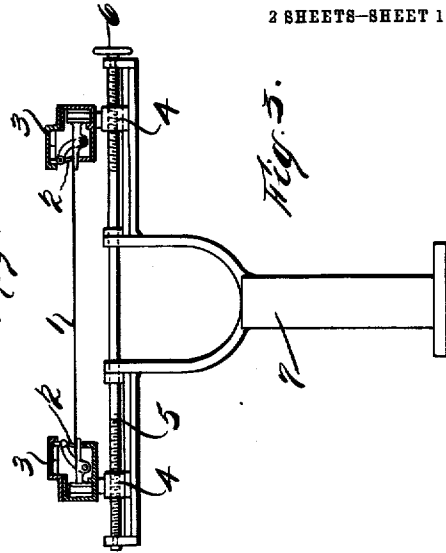
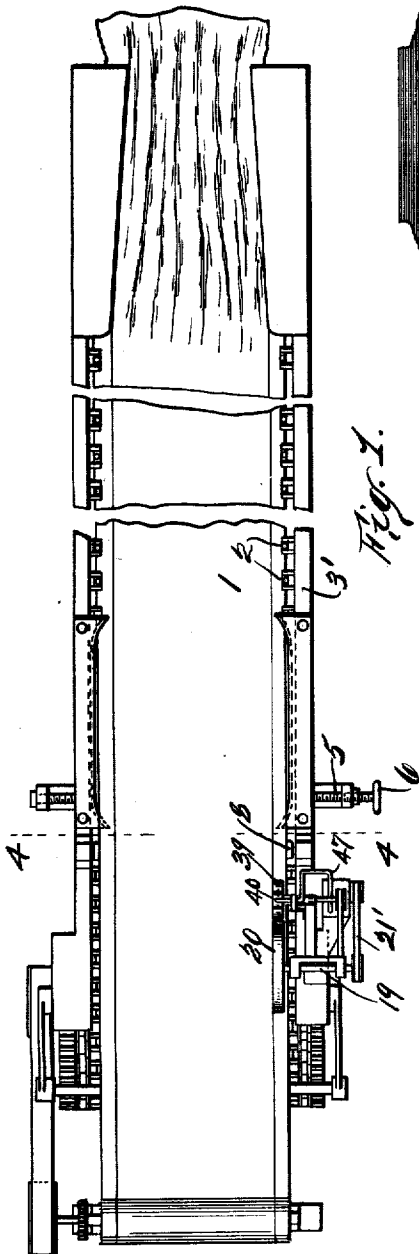


C. R. THOMSON.
 PRINTING DEVICE FOR SELVAGE PRINTING.
 APPLICATION FILED AUG. 11, 1911.

1,012,480.

Patented Dec. 19, 1911.

2 SHEETS—SHEET 1.



Witnesses
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Inventor:
 Charles R. Thomson.
 By *Warren Wright*
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Fig. 5.

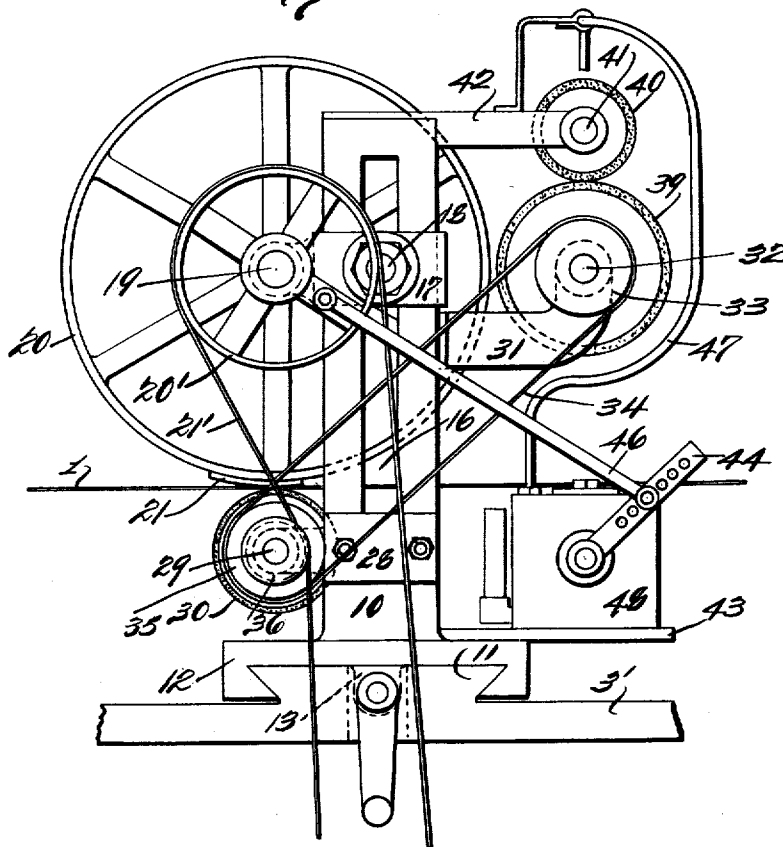
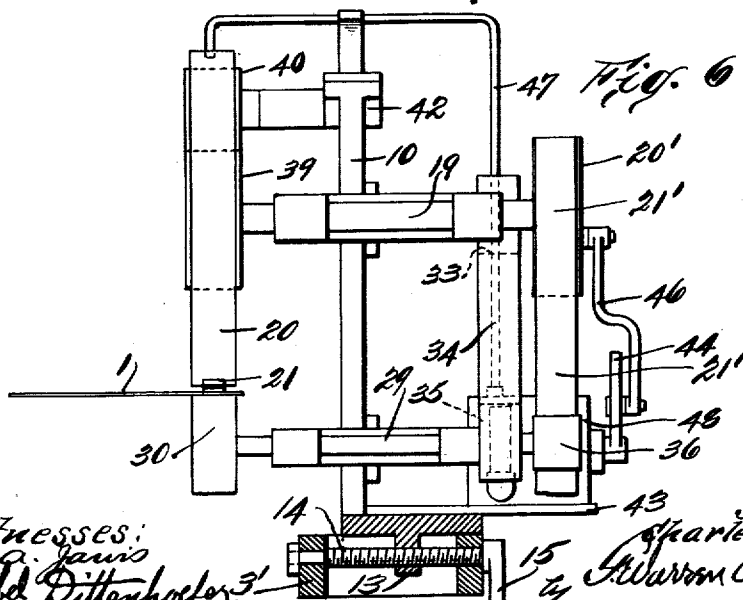


Fig. 6.



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UNITED STATES PATENT OFFICE.

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PRINTING DEVICE FOR SELVAGE-PRINTING.

1,012,480.

Specification of Letters Patent.

Patented Dec. 19, 1911.

Application filed August 11, 1911. Serial No. 643,511.

To all whom it may concern:

Be it known that I, CHARLES R. THOMSON, a citizen of the United States, residing at Adams, in the State of Massachusetts, have invented certain new and useful Improvements in Printing Devices for Selvage-Printing, of which the following is a clear, full, and exact description.

The object of this invention is to provide an improved printing mechanism for printing trade marks on the selvage of fabrics, and consists especially of improved details of construction and simplification of the mechanical construction of such devices, together with ease and ready adjustment of the same, to enable the operator to always get the printing on the selvage as it is passed through a tentering machine.

It will be understood that a machine of this character has considerable variation, in width of goods to be accommodated, and that such necessary movement of the tentering hooks requires that the printing mechanism be mounted so as to take a corresponding motion.

In my United States Patent No. 960,439, dated June 7th 1910, I have shown one form of printing mechanism for selvage printing.

In the present case, my object is to simplify and improve the mechanical devices, which secure the adjustment, the proper mounting of the printing mechanism and further the controlling of the ink feed to the same.

The scope of my invention will be pointed out in the claims.

In the accompanying drawings: Figure 1 is a plan view of a portion of a tentering frame, showing the printing mechanism. Fig. 2 is a side elevation of the left hand end of Fig. 1. Fig. 3 is a section on line 4-4 Fig. 1. Fig. 4 is a fragment of piece goods showing selvage and the manner of applying the trade mark. Fig. 5 is a side elevation enlarged, showing my improved printing mechanism. Fig. 6 is an end side elevation of Fig. 5, the adjusting block and screw being shown in section.

As shown in the drawing, the piece goods are fed to the tentering machine in the ordinary manner, and engaged by the hooks 2, and stretched to the width of the goods as shown along the line 4-4 Fig. 1. The hook mechanism not being a part of this invention, it is merely shown roughly in Fig.

3, each side set of hooks being mounted in a cover casing or frame 3 carried on blocks 4, which are movable outwardly and inwardly by a thread rod 5, operated by a hand wheel 6, and all mounted on the standard 7. As the goods leave the hooks of the tentering frame they are carried over an idler roller 8, and an idler roller 9, the idler roller 9 being shown as mounted at the end of the tentering wheel frame, or casing 3, while the roller 8 is mounted much nearer the engaging hooks at the point where they grasp the fabric. On the rail or casing 3 I mount a suitable vertical bracket 10, which carries my improved printing mechanism. The rail 3 is preferably provided with a tongue projection 11, on which there dovetails a base part 12 of the vertical bracket 10. The bracket 10 carries a threaded lug 13 and through the part 3 a threaded spindle 14 provided with an operating handle 15 is passed, that the standard 10 may be moved to and fro by the spindle in different adjusted positions by the operator for a purpose to be hereinafter described. The bracket 10 is provided with a slot 16 and on the bracket there is mounted a plate 17 slidably adjusted therein, and bolted in place by a bolt 18. The plate 17 extends forward of the operative bracket 10, and acts as a bearing for a shaft 19 of the printing wheel 20.

The printing wheel 20 carries type on its surface indicated at 21, or it may have type throughout its entire surface if desired. On the shaft 19 there is mounted a driven wheel 20', which is connected by a belt 21', with a driving wheel 22, fast on the shaft 23, and geared to an operating mechanism of the tentering machine. As shown in Fig. 2 it is geared by bevel gears 24 to the main driving belt 25 of the tentering machine. The shaft 23 carries the gear 26, which engages the driving gear 27 of the tentering frame. A second plate 28 is also mounted on the bracket 10, and it has an extension acting as a bearing for the shaft 29 of the platen roller 30; the roller 30 is preferably covered on its periphery with a yielding material, that proper imprint may be secured from the type, which is directly over the platen roller. The upright 10 carries a side arm 31 on which is mounted a shaft 32 carrying a driven wheel 33, which is connected by a belt 34 with a driving wheel 35

on the shaft 29. A driven wheel 36 on the shaft 29 is rotated by one side of the belt 21', which passes over the driving wheel on the shaft 23, and also over the driven wheel 20' on the printing wheel shaft 19. The shaft 32 carries the inking roller 39, which is in contact with the ink receiving roller 40, which is mounted freely to turn on the shaft 41 in a bracket 42 secured to the upper part of the upright 10. A platform or ledge 43 extends from the lower part of the upright 10 and carries an ordinary pressure ink pump. The pump is shown in side elevation, and not in detail in the drawing. It may be of any desired construction. It is operated however by a lever 44, connected by a connecting crank rod 46 with the driven wheel 20' of the printing wheel shaft. The pipe 47 from the pump 48 leads to above the ink receiving roller 40, so that ink will be intermittently delivered from that roll and from it distributed on to the inking roller 39 as is commonly done in printing operations.

In carrying out this invention, details of construction may be varied from those shown, and yet the essence of the invention be retained; some parts might be employed without others, and new features thereof might be combined with elements old in the art in diverse ways, although the herein described type is regarded as embodying substantial improvements over such modifications.

As many changes could be made in the above construction, and many apparently widely different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted in an illustrative and not in a limiting sense. It is furthermore desired to be understood that the language used in the following claims is intended to cover all the generic and specific features of the invention herein described, and all state-

ments of the scope of the invention which as a matter of language might be said to fall therebetween.

I claim as my invention:

1. A tentering machine having its hooks, its driving mechanism, and its side rails, an upright mounted on one of said side rails, and adjusting means for moving said upright transversely on said rail, a printing wheel, a shaft therefor mounted on said upright so as to overhang the rail, a shaft and a platen wheel mounted on said upright below the printing wheel, and also overhanging the rail, an ink roller and an ink distributor roller mounted on said upright, a pump mounted on said upright, a pipe from the pump to said ink distributing roll, and means for rotating the inking roll, the type wheel, the platen wheel, and means for operating said pump, all substantially set forth and described.

2. In a machine provided with means for feeding cloth therethrough, an upright mounted on one side of the line of travel of said cloth, and adjusting means for moving said upright transversely, a printing wheel, a shaft therefor mounted on said upright so as to overhang the cloth, a shaft and a platen wheel mounted on said upright below the printing wheel and also projecting beyond the edge of the cloth, an ink roller and an ink distributing roller mounted on said upright, a pump mounted on said upright, a pipe from the pump to said ink distributing roll, and means for rotating the inking roll, the type wheel, the platen wheel and means for operating said pump, all substantially as set forth.

Signed at Adams, in the county of Berkshire and State of Massachusetts this 27th day of July, in the year one thousand nine hundred and eleven.

CHAS. R. THOMSON.

Witnesses:

ALEX. TOLLAND,
JESSIE McBRIDE.