

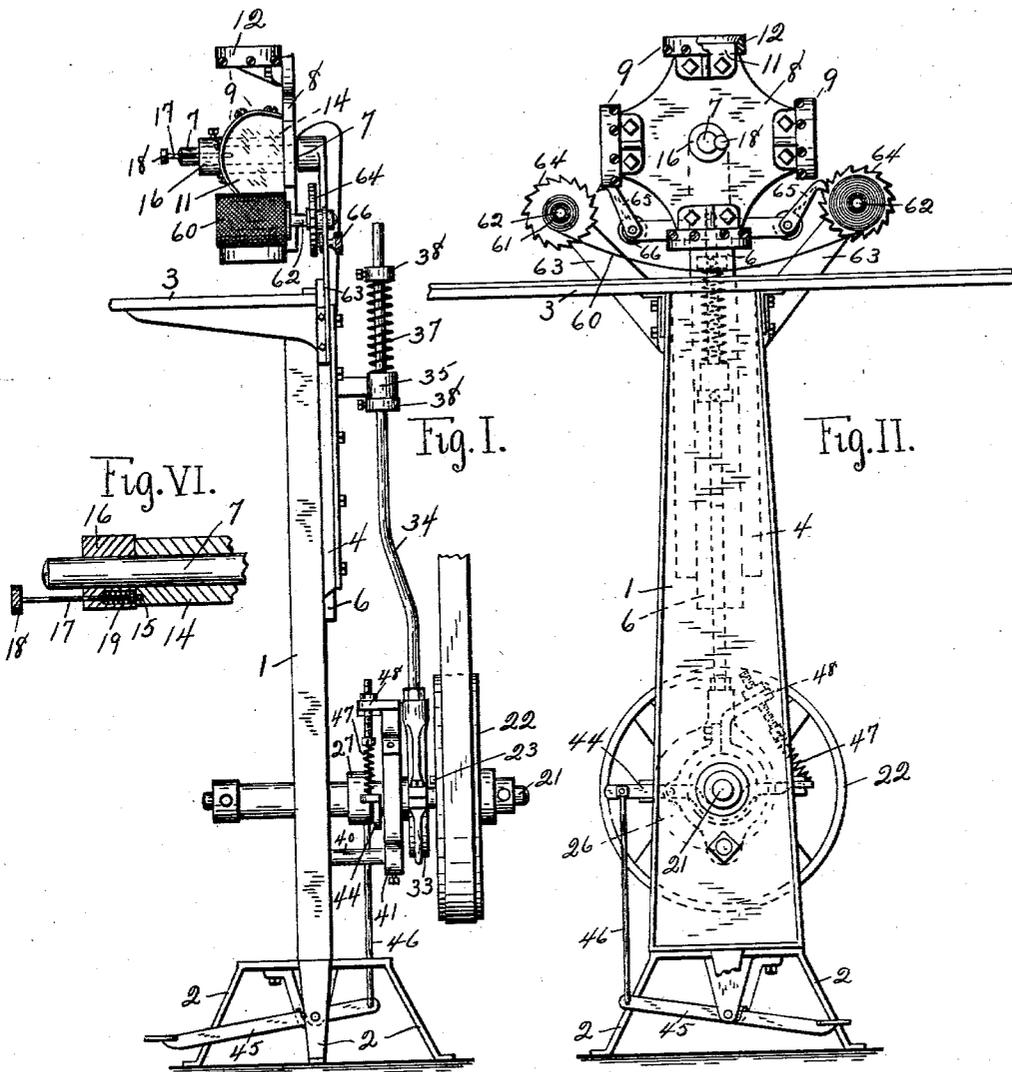
No. 748,854.

PATENTED JAN. 5, 1904.

M. J. FISHER.
FABRIC MARKING MACHINE.
APPLICATION FILED MAY 3, 1901.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:
Alschorn
E. L. Darling

Fig. VII
 44 55

Fig. VIII.
 44 55

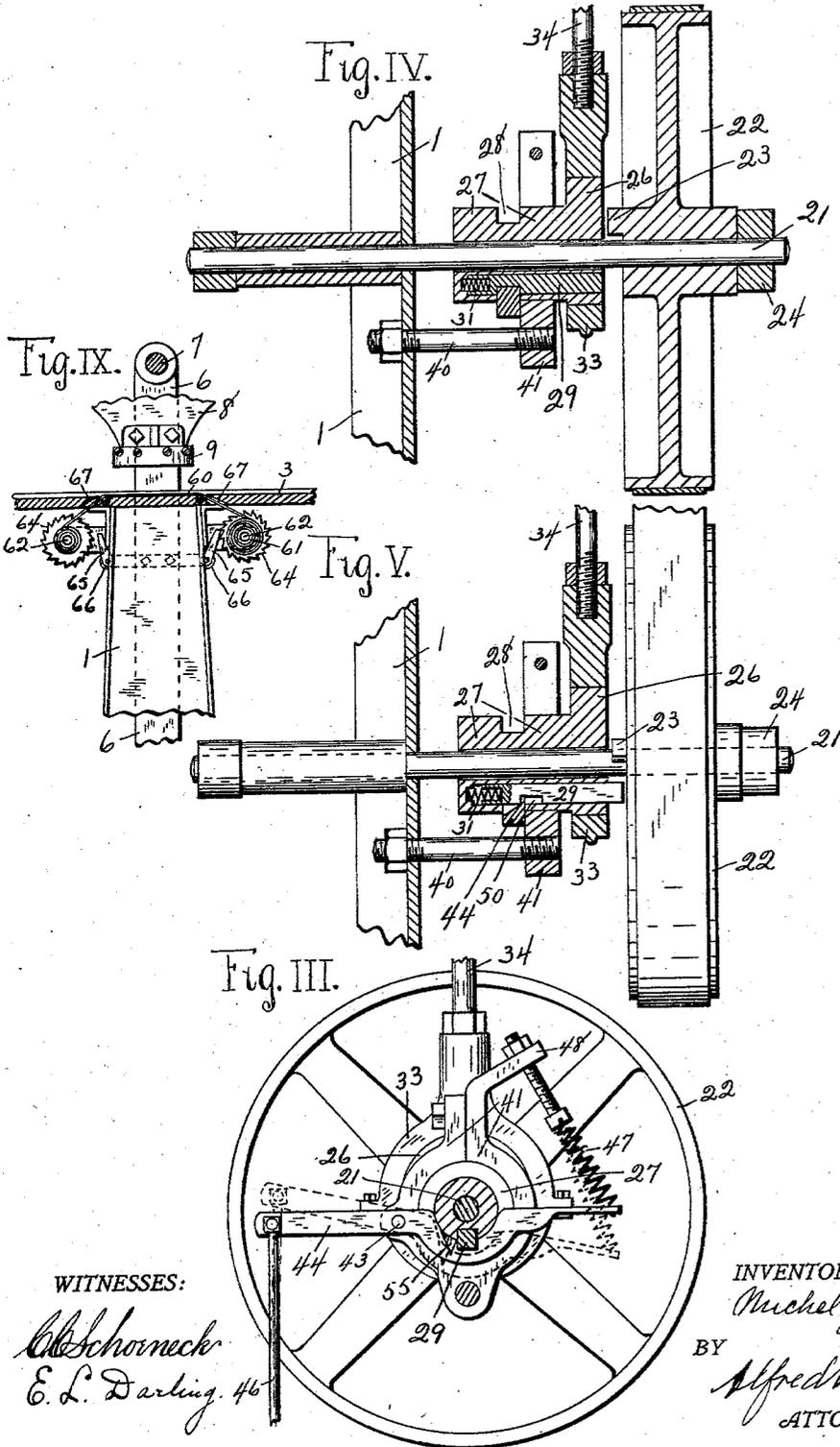
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E. L. Darling. 46

INVENTOR
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Alfred Wilkinson
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UNITED STATES PATENT OFFICE.

MICHEL J. FISHER, OF UTICA, NEW YORK.

FABRIC-MARKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 748,854, dated January 5, 1904.

Application filed May 3, 1901. Serial No. 58,560. (No model.)

To all whom it may concern:

Be it known that I, MICHEL J. FISHER, of Utica, in the county of Oneida, in the State of New York, have invented new and useful
 5 Improvements in Fabric-Marking Machines, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to a machine for marking
 10 ing shirts or other garments as a guide to the cutter. It is adapted to a great variety of uses where a large number of garments or pieces of fabric to be made into garments or otherwise used are to be marked for cutting.
 15 I have here shown a machine particularly adapted for marking the neck-opening of knit shirts, in which large quantities are produced on knitters of any desirable description and afterward finished by hand. It is important
 20 to mark them clearly with certainty and rapidity to guide the cutter and finisher, to whom they are handed over. The mark must be clear and not easily erased by the handling of the garments.

25 The essential features are an upright supporting-frame, a horizontal table thereon for the garment to be marked, a slide or standard fitted to the frame and adapted to be elevated and depressed therein, a plate or turret-head journaled on the upper end of the
 30 standard carrying a suitable number of forms or dies for the different sizes of garments, means to rotate the plate at will to bring the proper die in position to engage with and
 35 mark the garment when the slide is depressed, means to lock the plate in position when the proper die is in low position, and suitable mechanism released or tripped by the foot to
 40 depress the standard to effect the desired operation of marking the garment. A carbon ribbon on suitable rollers is preferably used to impress the garment with a substantially
 45 indelible mark. This ribbon may be supported on suitable rollers and shifted by hand as often as desired or automatically shifted by ratchet or other similar mechanism operated by the standard.

My invention will be understood by reference to the drawings herewith, in which the
 50 reference-numerals used in the specification indicate the corresponding parts in all the figures.

Figures I and II are respectively front and side elevations of my machine. Fig. III is an enlarged elevation showing the lever, eccentric, and adjacent parts by which the
 55 standard is depressed. Figs. IV and V are sections at right angles to the preceding, in which the parts are shown in different positions. Fig. VI is a section of a detail to show
 60 means for locking the former-plate in position. Figs. VII and VIII are respectively side elevation and top plan of the tripping-lever. Fig. IX illustrates a modification in
 65 arrangement of ribbon.

In the figures, 1 indicates the upright frame on suitable legs 2, carrying the horizontal
 table 3 for the garment arranged at a suitable height for the operator; 4, the slides or ways on the back of the frame for the standard 6,
 70 carrying at its upper end on journal 7 the rotatable former-plate or turret-head 8, having the desirable number of dies or forms 9 of different sizes. Here four are shown, consisting of the base-plate 11 and the metallic
 75 margin 12, bolted thereto, whose edge is made thin to impress the mark on the garment, but not so sharp as to cut it. For certain uses, however, this marking margin might be sharpened to effect the cut itself. The former-
 80 plate is provided with an integral sleeve 14, fitting the shaft or bearing 7 and notched at its outer end at 15 to correspond to the particular forms, and on the shaft is keyed a
 85 catch-sleeve 16, carrying the catch 17, having thumb-piece 18 and forced inwardly to engage with the notches by the spring 19. When the die is to be changed, the catch is with-
 90 drawn by hand, releasing the former-plate, which is then rotated, and the catch, being released, engages with the notch corresponding to the desired die, locking the plate in the desired operative position.

The operation is controlled and effected by the following mechanism: On the frame at
 95 some suitable point is secured the fixed shaft 21, on which turns freely the driving-pulley 22, provided on its inner face with a lug or pin 23, of hardened steel. 24 is a collar fixed on the shaft. To the shaft is also fitted the eccentric
 100 26, having the integral sleeve 27, grooved at 28 and carrying the latch 29, forced outwardly by spring 31 to engage with pin 23 as the pulley rotates, whereby eccentric-col-

lar 33, fitting the eccentric, is depressed and elevated, bringing down the former-plate and die on the garment through the connecting-rod 34, fitting arm 35 on the standard 6 and connected thereto elastically and adjustably through the spring 37 and the adjustable collars 38 38. Such connection is better than a positive fixed connection. The movement of the standard and former-plate is effected through the pulley and eccentric only when the parts are in the position shown in Fig. V, which is controlled by the operator, the parts normally standing in the position shown in Fig. IV.

40 is an arm on the standard carrying the bearing composed of bearing-straps 41, fitting the eccentric-sleeve 27 and carrying on pin 43 the tripping-lever 44, operated at the will of the operator by treadle 45 and connection 46. This lever is held up into groove 28 by an adjustable spring 47, connected to arm 48 on bearing 41, so that a suitably-formed portion 55 of the lever will engage with notch 50 on latch 29, withdrawing it out of engaging position with pin 23. When the treadle is depressed, the lever is drawn from engagement with notch 50, latch 29 is forced outwardly to engage with pin 23, and the die is depressed to effect the marking. When the treadle is released, the narrowest part of inclined portion 55 of the lever engages with notch 50, so that it slides along this inclined portion and is withdrawn from engagement, assuming the normal position shown in Fig. IV until the treadle is again depressed. As sleeve 27 rotates, carrying latch 29, notch 50 coming around engages narrowest part of this cut-out 55 on lever and, riding along, is retracted out of engagement with 23.

The thin margin 12 of the die 9 will usually impress a sufficient mark on the fabric; but I prefer to add a carbon ribbon forced into engagement with the fabric. Such an arrangement is shown in Fig. II, in which 60 is the ribbon wound on rollers 61 61 on pins 62 62, journaled in any suitable arm 63 and provided with ratchets 64 64, with which engage dogs 65 65 on the standard 6 to rotate the roller to wind the ribbon step by step at each depression of the standard. The dog on one side may be held out of engagement with ratchet by thumb-screw 66, which may be set as desired. In the arrangement shown in Fig. II the ribbon is forced down onto the fabric resting on the table; but in the preferred arrangement (shown in Fig. IX) the rollers are below the table, the ribbon passes through slots 67 over antifriction-rollers over the table on which it rests, and the fabric is forced down onto the ribbon by the die.

My machine is strong, simple, and durable and convenient, quick, and effective in operation.

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

1. In a fabric-marking machine, the combi-

nation of a supporting-frame, a table arranged on the front of said frame for the fabric, a standard fitted to slide in vertical ways on the back of the frame, a rotatable former-plate journaled on the upper end of the standard, dies of graded sizes carried on the front of the former-plate and extending over the table, means to lock the former-plate in adjusted position, a carbon ribbon to be engaged by the die when depressed, a treadle to depress the standard and a connection between the treadle and the standard.

2. In a fabric-marking machine, the combination of a supporting-frame, a table arranged on the front thereof for the fabric, a standard fitted to slide in ways on the back of the frame, a rotatable former-plate journaled to the upper end of the standard, dies of various sizes arranged on the former-plate extending over the table, said dies being formed of a base-plate and a thin metallic margin, and a latch to engage with notches on the former-plate locking it in adjusted position, and means to depress the standard to bring the die into engagement with the fabric.

3. In a fabric-marking machine, the combination of a supporting-frame provided with vertical ways on its rear face, a horizontal table for the fabric on the front face thereof, a standard fitted to slide in said ways, a shaft extending forward from the upper end of the standard, a rotating former-plate provided with an integral sleeve journaled to said shaft, dies of different sizes arranged on the former-plate, said sleeve being provided with notches on its face corresponding to said dies, a catch-sleeve keyed on the front end of said shaft, a catch supported in said catch-sleeve, a spring to force said catch rearwardly to engage with said notches, and means to depress the standard to bring the die into engagement with the fabric.

4. In a fabric-marking machine, the combination of a supporting-frame, a table thereon for the fabric, a standard fitted to slide in ways in the frame, a die on the standard to engage with the fabric, a pulley-shaft on the frame, a pulley journaled thereon, means to rotate the pulley, an inwardly-extending pin on the pulley, an eccentric journaled on said pulley-shaft, an integral grooved sleeve on the eccentric, a notched latch arranged in said eccentric, a spring to force said latch outwardly, intermittingly to engage with the pulley-pin, an eccentric-collar fitted to the eccentric, a connection between said collar and the standard, an arm on the frame, bearing-straps supported on said arm and fitted to the eccentric-sleeve, a tripping-lever pivotally supported on said bearing-straps having an inclined portion adapted to engage with the latch-notch to retract the latch, a spring to hold said tripping-lever into engagement with the eccentric-sleeve in said groove to engage with the notch, a treadle and a connection therefrom to depress the tripping-lever.

5. In a fabric-marking machine, the combi-

nation of a supporting-frame provided with vertical ways on its rear face, a horizontal table for the fabric on the front face thereof, a standard fitted to slide in said ways, a shaft extending forward from the upper end of the standard, a rotating former-plate provided with an integral sleeve journaled on said shaft, dies of different sizes arranged on the former-plate, said sleeve being provided with notches on its front face corresponding to said dies, a catch-sleeve keyed on the front end of said shaft, a catch supported in said catch-sleeve, a spring to force said catch rearwardly to engage with said notches, a pulley-shaft on the frame, a pulley journaled thereon, means to rotate the pulley, an inwardly-extending pin on the pulley, an eccentric journaled on said pulley-shaft, an integral sleeve on the eccentric, a notched latch arranged in said eccentric, a spring to force

said latch outwardly, intermittingly to engage with the pulley-pin, an eccentric-collar fitted to the eccentric, connections between said collar and the standard, an arm on the frame, bearing-straps supported on said arm fitted to the eccentric-sleeve, a tripping-lever pivotally supported on said bearing-straps having an inclined portion adapted to engage with the latch-notch to retract the latch, a spring to hold said tripping-lever into engagement with the eccentric-sleeve in said groove to engage with the notch, a treadle and a connection therefrom to depress the tripping-lever.

In testimony whereof I have hereunto signed my name.

MICHEL J. FISHER. [L. S.]

Witnesses:

C. C. SCHOENECK,
E. L. DARLING.