Aug. 2, 1927. 1,637,450

F. H. MARTIN

HAND ROLLER

Filed Nov. 12, 1925

Fig. 1.

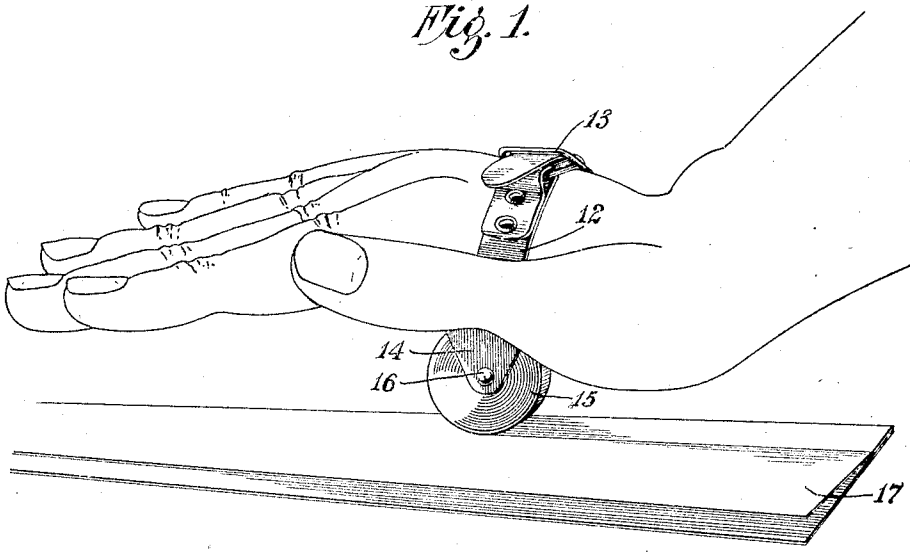
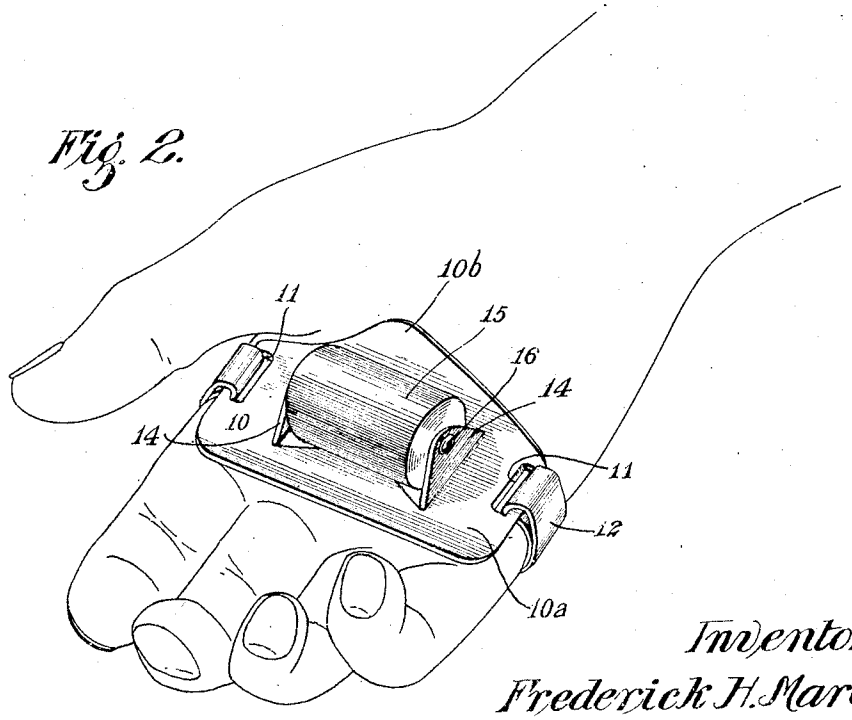


Fig. 2.



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UNITED STATES PATENT OFFICE.

FREDERICK H. MARTIN, OF AKRON, OHIO, ASSIGNOR TO THE B. F. GOODRICH COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

HAND ROLLER.

Application filed November 12, 1925. Serial No. 68,627.

This invention relates to hand-rollers suitable for pressing tacky sheets of material as in the building of rubber footwear, where numerous brief rolling operations are alternated with stock-manipulating operations requiring the use of the fingers. Heretofore, so far as I am aware, the practice has been to employ a hand-roller provided with a handle requiring to be grasped by the hand and consequently the frequent laying aside of the roller to permit the fingers to be employed in stock-manipulating operations.

My general object is to provide an improved hand-roller adapted for rapid work. Further objects are to avoid weariness and discomfort of the operator by providing a roller by which strong pressure may be applied without great muscular exertion, and particularly of the fingers.

Of the accompanying drawings:

Fig. 1 is a perspective view of a hand-roller embodying my invention, together with the work and the hand of the operator.

Fig. 2 is a perspective view of the operator's hand, inverted, with the roller attached thereto.

Referring to the drawings, the device comprises a roller mounting or plate 10, preferably of metal, which is shaped to fit the palm of the hand, having a substantially flat portion 10^a relatively near the fingers and a curved abutment or driving portion 10^b adapted to be engaged firmly by the base of the hand, nearer the wrist, to impel the roller forward.

The plate is formed with an eye 11 at each end of the flat portion 10^a for a strap 12 adapted to pass over the back of the hand and provided with a buckle 13 for securing the device to the hand.

The plate is formed near its center with a pair of ears 14, 14 standing out from the palm of the hand, which may be provided by die-stamping and bending up triangular sections of the metal as shown. Between these ears 14 a presser roll 15 is journaled on an axle 16 mounted in the ears.

In the operation of the device, the same being strapped upon the hand as shown, the hand is not closed, but may be somewhat cupped to maintain a firm bearing against the plate 10, and thus the device is passed over the work, 17, as shown clearly in Fig. 1. The fingers and thumb are free, and may be employed for manipulation of the stock without laying aside the roller.

Tiring of the fingers is avoided since they are not required to grasp the device, and the position of the device in the hand, close to the wrist, is such that heavy pressure may be applied to the work without great strain upon any part of the hand. The roll 15 being journaled near the center of the plate and close to the hand gives stability in use, so that the pressure against the work does not tend to displace the device on the hand.

The device may be modified in details of construction without departure from the scope of my invention as claimed.

I claim:

A hand-roller comprising a roller-mounting having a substantially flat face adapted to fit the palm of the hand, and an abutment face curved out of the plane of said flat face and adapted to be engaged by the portion of the hand nearer the wrist, means for securing said mounting to the hand, and a presser roll journaled on said mounting near the center thereof.

In witness whereof I have hereunto set my hand this 5th day of November, 1925.

FREDERICK H. MARTIN.