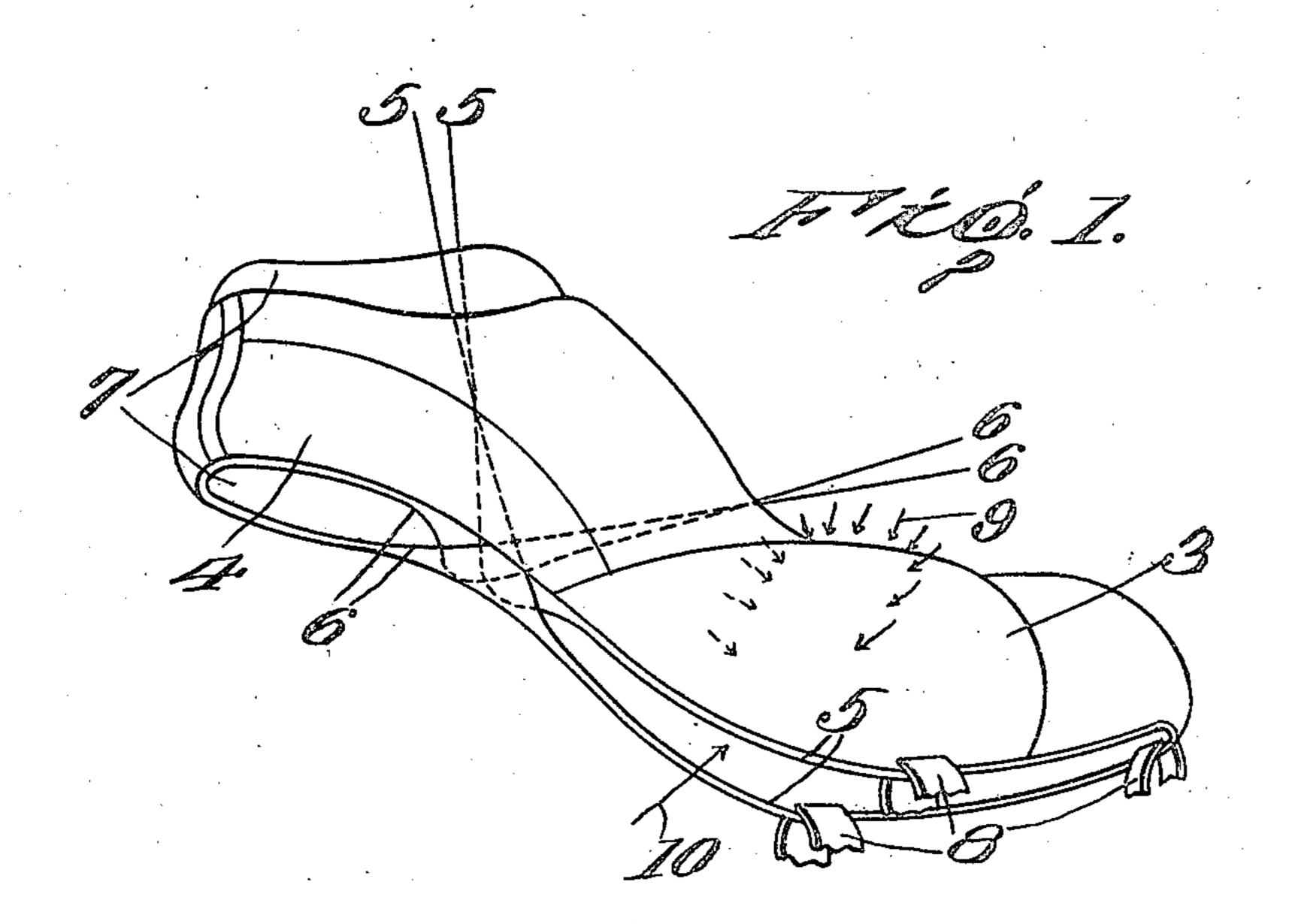
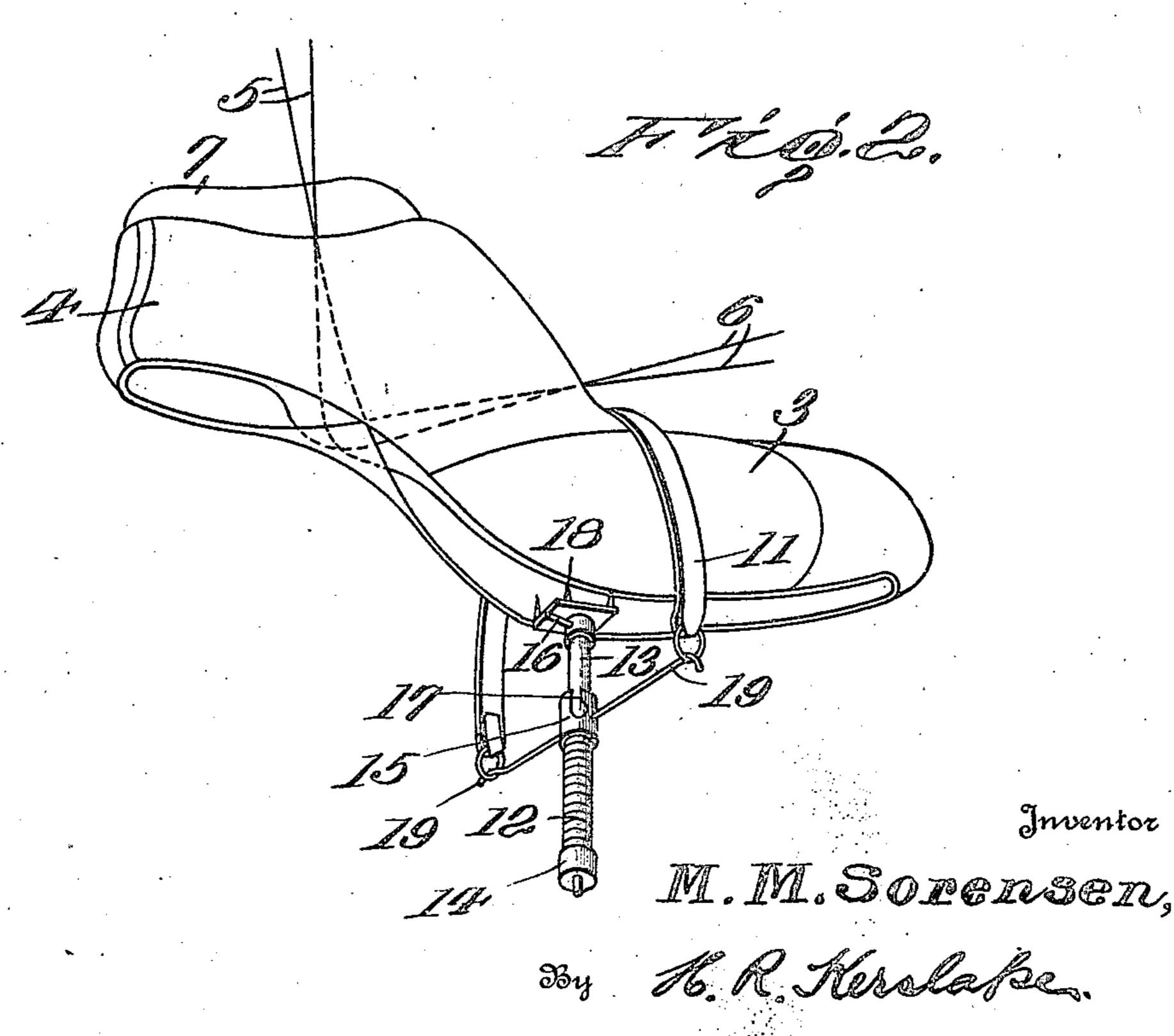
M. M. SORENSEN.

DEVICE FOR PULLING OVER UPPERS ON LASTS.

FILED AUG. 24, 1920.





attorney

UNITED STATES PATENT OFFICE.

MARIUS METHILTUS SORENSEN, OF VALLEROD, NEAR RUNGSTED, ISLE OF SEALAND, DENMARK.

DEVICE FOR PULLING OVER UPPERS ON LASTS.

Application filed August 24, 1920. Serial No. 405,711.

To all whom it may concern:

5 of Sealand, in the Kingdom of Denmark, the ordinary pulling over machines which has invented certain new and useful Im- operate with nails. provements in Devices for Pulling Over The device, independent of the pulling a specification.

1224229.

20 a special nail feeding mechanism and nail- member 16, which, when the spring is pulled

25 ment of the pulling grippers, a pressure on plate 18, which can press against the bottom

matically shows the aforesaid principle, and tion-connection between last and upper. Fig. 2 shows a device intended to exercise It is obvious that the invention is not con- 85

in such a manner that one line indicates within the scope of the following claims. the threads 5 and 6 respectively, which What I claim and desire to secure by Let- 90 40 serves for lasting the front 3 and the back ters Patent is: 4, respectively. 7 designates the last, and 8 1. A device for producing and maintainmechanism.

45 has been grasped by the grippers and is upper, a pressure-member for pressing tion between the last and the upper is ef- bers, and easily releasable means for con-50 rows 9 and 10 in Fig. 1, and as this pres- the other of these members. sure is maintained, independent of the pull- 2. A device for producing and maintain-

ing over machine, the last, with the upper Be it known that Marius Methillus So- pulled over it, can be removed from this RENSEN, a subject of the King of Denmark, machine, and can be manipulated just like residing at Vallerod, near Rungsted, Isle the intermediate product that comes from 55

Uppers on Lasts, of which the following is over machine, for producing and maintaining the aforesaid friction between the last 60 This invention relates to a method of pull- and the upper consists, in the example ing over shoe uppers on the last, especially shown in Fig. 2, of a strap 11, which is uppers which are to be lasted according to passed over the upper, and which can be the method covered by U. S. Patent No. maintained in stretched condition by means of a spring 12. This spring is of the trac- 65 The object of the invention is to hold the tion spiral type and is disposed on a rod 13, upper fast in the stretched position without with whose head 14 one of its ends is conthe use of nails, which would complicate the nected, while its other end is connected with ensuing lasting according to the aforesaid a sleeve 15 shiftable on the rod. Close to method, and which requires the disposal of the other end of the rod there is a holding- 70 driving mechanism in connection with the by the sleeve 15 approaching this end, can pulling over mechanism.

grip into an undercut recess 17 in the sleeve, With the present method after the upper and thus keep the spring in tension. At is pulled over the last through the move- this end of the rod 13 there is a pressure- 75 the upper, directed against the top side of of the last 7, and on the sleeve 15 there are the last, is exercised and maintained, so that hooks 19 on which the ends of the strap 11 there occurs a sufficiently strong friction be- can be hooked in an easily releasable mantween the last and the upper to hold the ner. When the holding-member 16 is re- 80 30 latter in the pulled over position. leased from the recess 17, the spring 12, as The invention is illustrated in the accom- it contracts, will pull the strap 11 tight over panying drawing, in which Fig. 1 diagram- the upper, thus producing the desired fric-

and maintain the aforesaid pressure. fined to the specific holding means shown in For the sake of simplicity the edge of the Fig. 2 and it is self-evident that the details upper is shown by means of a double line, of the device may be modified and changed

represents the grippers of the pulling over ing friction between a last and an upper that is pulled over the last, consisting of a When the upper, in the well-known way, member for exercising pressure against the 95 pulled down over the last through the move- against the bottom of the last, a spring, one ments of these grippers, the aforesaid fric- end of which is secured to one of these memfected by pressure, as indicated by the ar- necting the other end of the spring with 100

ing friction between a last and an upper that is pulled over the same, comprising a post adapted to be suspended from the bottom of the last, a member slidably mounted on said post and carrying a plurality of hooks, a spring surrounding the post and having one of its ends connected to the slid-

ably mounted member and its other end fixed to the outer end of the post, and a strap adapted to pass over the upper sur- 10 face of the upper and provided at its ends with means engaging said hooks.

In testimony whereof I affix my signature.

MARIUS METHILTUS SORENSEN.