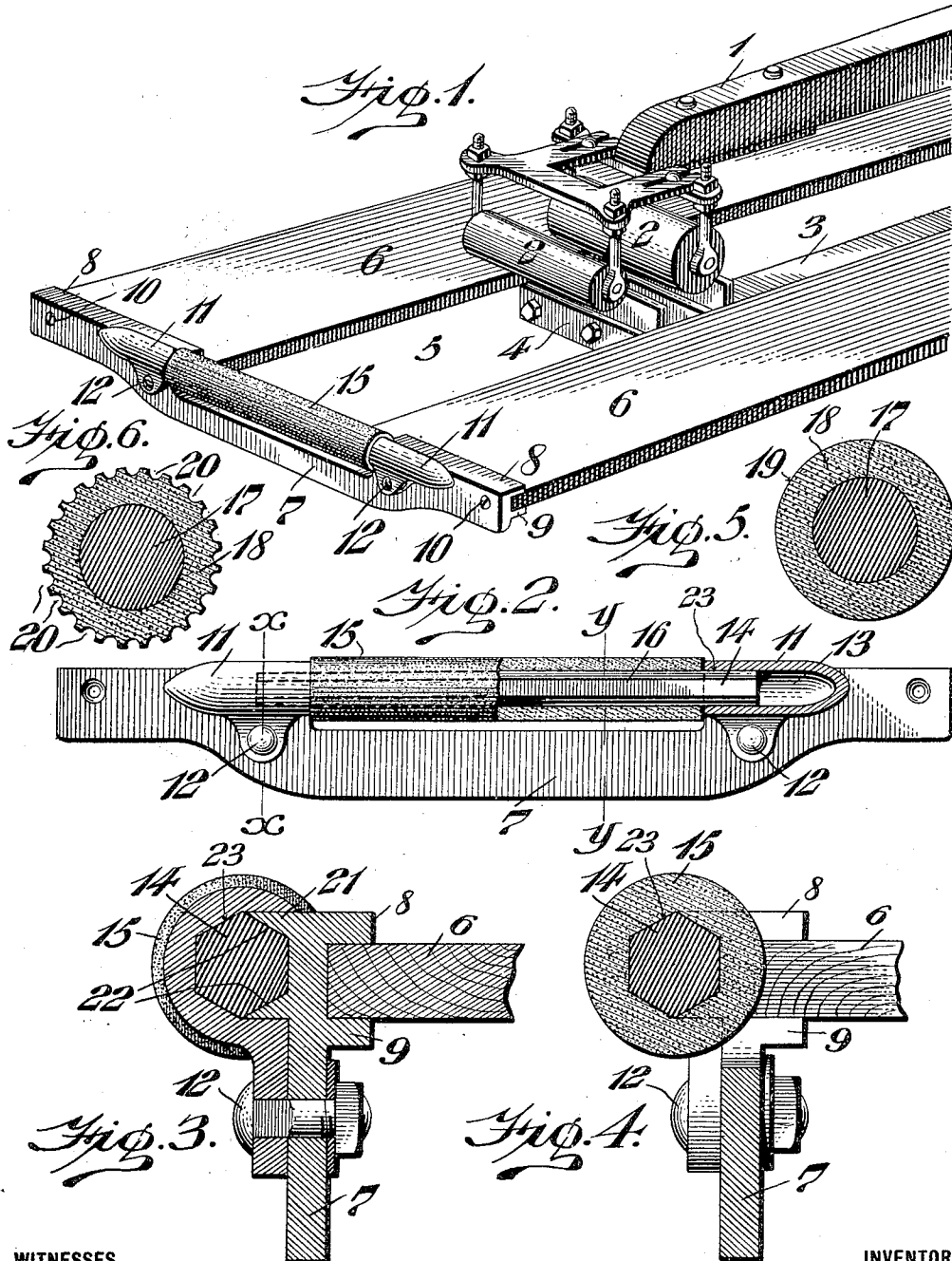


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BREAST ROLL FOR STAKING MACHINES.
APPLICATION FILED OCT. 5, 1910.

999,472.

Patented Aug. 1, 1911.



WITNESSES

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MANUEL STEINHARTER, OF PHILADELPHIA, PENNSYLVANIA.

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Specification of Letters Patent.

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Application filed October 5, 1910. Serial No. 585,397.

To all whom it may concern:

Be it known that I, MANUEL STEINHARTER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Breast-Roll for Staking-Machines, of which the following is a specification.

My present invention consists of a novel construction of a breast roll for leather staking machines, wherein the roll is composed of an internal core of metal or other similar material which is preferably of polygonal shape in cross section at or near its ends, whereby said roll can be supported in suitable bearings and thus prevented from rotation, the exterior of said roll being composed of a cement body, which may be either ordinary cement applied in a plastic condition thereto or cement in combination with sand, stone-dust, cork, rubber or other material, whereby the hide or skin, which is being treated in the staking machine, will be gripped between the body of the workman and the breast roll with greater efficiency than heretofore and, in addition, the breast roll, which in this type of machine is subjected to great wear, will be practically indestructible and readily adjustable, it only being necessary to remove one of the end bearings of said breast roll, so as to enable the same to be rotated slightly so as to expose a fresh gripping surface to the skin, according to requirements. It will be further apparent that the breast roll composed of the ingredients above referred to, in addition to being practically indestructible will be provided on its exterior surface with a slightly roughened periphery, owing to its construction, whereby the leather will be temporarily tightly held in the desired position between the body of the workman and the breast roll without liability of its slipping or shifting during treatment.

To the above ends my invention consists of a novel construction of breast roll comprising a metallic core having a cement or composition covering thereon, the outer surface of which will be slightly roughened by reason of the ingredients of which the roll is composed the extremities of said roll being preferably of polygonal or other shape in cross section and adapted to be adjustably mounted in detachable bearings to permit adjustment of the breast roll according to requirements.

For the purpose of illustrating my inven-

tion, I have shown in the accompanying drawing one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described.

Figure 1 represents a perspective view of a breast roll embodying one form of my invention, the same being shown in assembled position with respect to the front of a staking machine. Fig. 2 represents a front elevation of the breast roll and bracket in detachable position, a portion of the breast roll being shown in section. Fig. 3 represents a section on line $x-x$ Fig. 2. Fig. 4 represents a section on line $y-y$ Fig. 2. Fig. 5 represents a sectional view of a breast roll having a metallic core of cylindrical contour throughout instead of polygonal. Fig. 6 represents a sectional view of an embodiment of my invention, wherein the metallic core is shown as being of cylindrical contour and the outer surface of the roll as being grooved, fluted or corrugated.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings. In order to more clearly illustrate my invention, I have shown the same in assembled position with respect to a well known type of leather staking machine, although it will be understood that my invention is adapted to be employed in conjunction with any desired or conventional type of leather staking machine.

1 designates the upper lever of a leather staking machine provided with the rolls 2.

3 designates the lower staking machine lever which is provided with a suitable number of leather working devices 4, said devices being located in proximity to the slot 5 in the table 6.

7 designates a front bracket having laterally extending flanges 8 and 9, between which the ends of the table are secured in any suitable manner such, as for example, by fastening devices 10.

11 designates end brackets which are secured to the front bracket 7 by means of suitable fastening devices 12, said brackets having openings 13 therein which are

shaped to correspond with the ends 14 of the breast roll 15, whereby the latter will be prevented from rotating and, in the present instance, I have shown for the purpose of illustration, the ends 14 as being of polygonal shape in cross section and adapted to engage the polygonal bore 13 of the brackets 11, although it will be apparent that any desired means may be provided for preventing relative rotation of the breast roll and its retaining end brackets.

In carrying out my invention in one embodiment thereof, I employ a polygonal rod or core 16, comprising a body portion of polygonal shape in cross section throughout its length, as will be understood from Fig. 2, said body portion being preferably of iron, steel or other metal and having applied to its outer surface a coating of cement which may be either pure cement or the cement may be when in plastic condition combined with sand, stone-dust, cork, rubber or other similar material.

It will be apparent to those skilled in the art that by reason of the ingredients entering into the cement coating the outer periphery or surface of the roll will be slightly roughened so that the leather or skin being treated can be tightly gripped between the body of the workman and the roll without liability of the skin shifting during treatment.

In the construction shown in Figs. 2, 3 and 4, I have shown the cement as being applied to a polygonal rod having the polygonal ends 14, the exterior of the breast roll being so finished as to have the shape of a solid cylinder, as will be understood from Fig. 1, said cylinder being composed of the ingredients hereinbefore specified and the extremities of the composition terminating within or about flush with the juxtaposed ends of the end brackets or bearings 11, as will be understood from Figs. 1 and 2.

In the embodiment of my invention seen in Figs. 5 and 6, I employ a round metallic core or body 17 having the composition 18 hereinabove specified applied thereto, the exterior periphery of the roll in Fig. 5 being cylindrical, as indicated at 19, while in the construction seen in Fig. 6, the exterior of the roll is corrugated, fluted or roughened, as indicated at 20.

It will be understood that the cement or composition above specified is applied to the metallic core in plastic condition and can be shaped and smoothed prior to hardening by any suitable implements or devices.

During the operation of staking hides or skins as is well known to those skilled in the art, the leather is held between the body of the workman and the outer periphery of the breast roll 15, 19 or 20, and the skin so held upon the table 6 can then be treated by

the staking devices of the staking machine. It is essential that the skin be temporarily held in taut or stationary position during treatment and intermittently shifted according to requirements and if an ordinary breast roll is employed or one which is unprovided with a frictional device of the character herein specified, the leather is liable to slip and in case there should simply be only a rubber covering on the roll, there is a greater pull on the rubber near the central portion of the roll, so that the same soon becomes hollowed out and in such case it is extremely difficult to properly stake the skin without forming unevenness therein. When my device is employed the operator will at all times have a frictional grip on the leather by reason of the cement coating thereon, since it will be apparent to those skilled in the art that the outer surface of the cylinder cement roll is of such a character that it is very slightly roughened so that there is a gripping action on the leather arising from the ingredients of which the cement roll is composed, and in case it ever becomes necessary to rotate or adjust the breast roll, it can be readily done and a new gripping surface provided by simply removing one of the fastenings 12, whereupon the end bracket 11 may be removed and the breast roll turned, after which said end bracket is inserted in position, so that a new gripping surface of the breast roll will be provided, as is evident.

My device is not only very economical but durable as well and practically indestructible but in case the same should become worn out after a long period of use, a new roll may be readily and quickly replaced by removing one of the end brackets 11, as has hereinbefore been specified.

In my present construction each end bracket 11 on its inner face is provided with a hexagonal or polygonal recess 13 having the polygonal faces 23 and the front bracket 7 is provided with forwardly extending portions 21, the inner faces of which are angularly inclined, as indicated at 22, thereby adapting the same to readily receive the polygonal ends 14 of the metallic core of the breast roll.

It will now be apparent that I have devised a novel and useful construction of a roll for staking machines, which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while I have, in the present instance, shown and described a preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

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

1. As a new article of manufacture, a normally non-rotatable breast roll for a leather staking machine, comprising a metallic core and a coating of cement forming a cylinder applied to said core said cylinder having a slightly roughened exterior surface, the ends of said core projecting beyond said cement coating and adapted to serve as bearings and to coact with suitable supports.

2. As a new article of manufacture, a breast roll for leather staking machines, comprising a metallic core having polygonal ends thereon and a coating of cement forming a cylinder applied to said core, the outer

periphery of said roll being grooved or corrugated.

3. The combination of a normally non-rotatable breast roll for a leather staking machine, comprising a metallic core or body, a coating of cement forming a cylinder applied to said core the outer surface of said core being slightly roughened, the ends of said core projecting beyond said cement coating and adapted to serve as bearings, end brackets in which said bearings are supported and means for securing said end brackets in position.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."