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INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 63,747. Process of Tanning Hides.

(Procédé pour tanner les peaux.)

Samuel Millar, assignee of Charles Millar, both of Glasgow, Scotland, 1st September, 1899; 6 years. (Filed 4th April, 1899.)

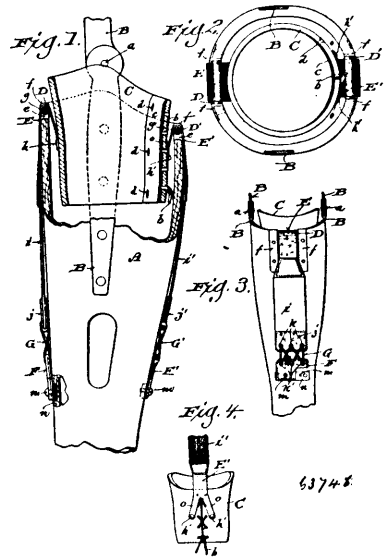
Claim.—The process of tanning, consisting in submitting hides or skins, after the lime or other substance used in preparing them for tanning has been thoroughly removed, to a solution of formalin, said solution consisting substantially of one part commercial formalin to one thousand parts of water, then submitting said hides to other tanning liquors until thoroughly tanned, substantially as hereinbefore described.

No. 63,748. Artificial Limb. (Membre artificiel.)

The Doerffinger Artificial Limb Company, assignees of Charles Harmon Doerffinger, Joseph Burg and Joseph Davis, all of Milwaukee, Wisconsin, U.S.A., 1st September, 1899; 6 years. (Filed 18th March, 1899.)

Claim.—1st. In an artificial limb, the combination with a hollow outer portion having horizontally disposed rollers journaled in the upper part thereof at both front and rear, of a stump socket practically parallel with and of less diameter than that of said outer portion, extending above and adapted to project downward within the upper part of the latter, but absolutely free from contact therewith, and flexible straps secured at their inner and upper ends to said stump socket and adapted to pass over said rollers and be secured at their outer and lower ends to the outer surface of said outer portion of said limb. 2nd. In an artificial limb, the combination with a hollow outer portion having horizontally disposed rollers journaled in the upper part thereof at both front and rear, of a rearwardly vertically divided stump socket practically parallel with and of less diameter than that of said outer portion, extending above and adapted to project downward within the upper part of the latter, but everywhere absolutely free from contact therewith, flexible and partly elastic straps secured at their inner and upper ends to said stump socket and adapted to pass over said rollers and down outside said outer portion, the portions of said straps connecting the stump socket and outer portion being inelastic, adjustable fastening devices for connecting together the separated rear edges of the said stump socket, and other fastening devices for adjustably connecting the lower ends of said straps to the said outer portion and for taking up the slack of said straps. 3rd. In an artificial limb, the combination with a hollow outer portion having horizontally disposed rollers journaled in the upper part thereof at both front and rear, of a stump socket practically parallel with and of less diameter than that of said outer portion, extending above

and adapted to project downward within, but everywhere absolutely free from contact with, the upper part of the latter, said stump



socket being vertically split at the rear, and the adjacent separated edges being provided with lacing perforations, a lacing cord in engagement with said perforated edges for adjustably uniting the said separated edges, a protective flap secured to the inner surface of said stump socket, adjacent to one of said separated edges, and extending over the connected joint between them, a flexible and partly elastic strap secured at its inner and upper end to the front of said stump socket and passing over the front roller of the hollow outer portion, and thence down along the front, and the lower and outer end of said strap being adjustably secured to the lower outer part of said outer portion, and another flexible and partly elastic strap having a forked inner and upper end, the branches of said forked end being separately secured to said stump socket, one on each side of the said separated rear edges thereof, and said strap passing over the rear roller of the hollow outer portion and thence down along the rear of said outer portion and the lower outer end of said strap being adjustably secured to the lower outer part thereof. 4th. In an artificial limb, an artificial ankle-joint, comprising a pair of plates, one of which has rocker bearing with respect to the other, a bolt in yielding connection with one of the plates and extended through the other plate, a spring surrounding the bolt against the latter plate, a nut on said bolt in position to regulate the tension of the spring, an elastic cushion between the forward ends of said plates, another bolt having yielding connection with the forward end of the upper plate and engaged with a longitudinal slot in the lower plate, a spring surrounding the lower portion of the latter bolt, and a nut on said latter bolt in position to regulate tension of the latter spring against an opposing surface.