UNITED STATES PATENT OFFICE

ANTONIO FERRETTI, OF MILAN, ITALY, ASSIGNOR TO SOCIETÁ INVENZIONI BREVETTI ANONIMA TORINO, OF TURIN, ITALY

TREATING OF ANIMAL-SKIN PRODUCTS

No Drawing. Original application filed May 24, 1929, Serial No. 365,780, and in Italy July 14, 1928. Divided and this application filed July 15, 1930. Serial No. 468,124.

ing animal skin materials or animal skin emulsifiable in water is added to the slurry products, as distinguished from the treat- either before, during or after the addition ment of wool, hair, etc., and has for one of of the tanning agent and always before add-5 its objects the provision of a process adapted for utilizing untanned hides and scraps and cuttings therefrom, whereby such ma- to the slurry the binder thereof is precipiterials may be converted into a useful and tated upon the fibers being treated. valuable product which in appearance, fi-10 brous texture and flexibility resembles natural leather.

It will be apparent that my invention is of great economical value in that it salvages or utilizes material which heretofore gen-15 erally has been converted into glues or fertilizers, or simply thrown away.

tanned fibers of the material being treated directly after the latex and before abstractare intimately admixed with an aqueous ing the liquid of the slurry improves the 20 medium until a thin flowing slurry of the process and the product. fibers in aqueous suspension is obtained. The The slurry is then caused to flow upon a proportion of aqueous medium to the ma- perforated support such as a wire gauze terial being treated is necessarily large so and the liquid of the slurry abstracted so as to obtain the desired thin flowing mass that a sheet of fibers is obtained. This ma-25 or slurry.

agent, a fiber lubricant and a suitable bind-ployed in the finishing of natural leathers. ing material containing a water insoluble. It is to be understood that the amount of 30 with water prior to the coagulation of the pending upon the material being treated 80 tained from trees or plants and which may have been preserved by ammonia or any 35 other suitable alkaline preserving material. A synthetic latex or other binding material containing a water insoluble binder and which is in suitable condition for incorporation in the slurry may be substituted for the latices above mentioned.

When latex is used as a binding material I avoid the vulcanizing treatment otherwise required for preserving the latex by adding a vegetable tannin such as those of the 45 pyrogallic series, more particularly sumac, to the slurry, this it being understood in addition to the mineral tanning agent above mentioned. As a mineral tanning agent or material I can employ particularly those 50 containing chromium.

This invention relates to a process of treat- A suitable fiber lubricant, i. e., a grease ing the binding material.

Upon the addition of the binding material

Inasmuch as the liquid of the slurry must be abstracted, in the further practice of my 60 process I may add to the slurry a material such as ammonium chloride or the like, the addition of this material promoting the extracting of the liquid of the slurry and being of material advantage in the making of 65 sheets of substantial thickness. In other In the practice of my invention the un-words, the addition of ammonium chloride

terial is then rolled and pressed and sub- 75 To this slurry I add a mineral tanning jected to the usual finishing operations em-

binder, the binding material being miscible ammonium chloride employed will vary debinder, for example indiarubber latex, gutta and also depending upon the separation or percha latex, balata latex, or the like, as ob- abstracting of the liquid of the slurry that is desired in the production of a sheet-like fibrous mass.

I find in the practice of my invention that 85 some care must be exercised so as not to allow coagulation of the binder employed to proceed to a detrimental degree before abstracting the liquid of the slurry, inasmuch as such detrimental coagulation renders further proc- 90 essing and the properties of the finished product unsatisfactory. As for example when employing latex as a binding material, I prefer to abstract the liquid of the slurry within an 95 hour of the addition of the binding material to the slurry.

This application is a division of my copending application Serial No. 365,780, filed May 24, 1929. May 24, 1929.

What I claim is:—

1. The process which comprises adding a mineral tanning agent and a grease to a flowing aqueous slurry containing the fibrous portions of untanned animal skin products in suspension, adding ammonium chloride, a water insoluble binder and a preservative therefor to the slurry, and abstracting the liquid of the slurry.

2. The process which comprises adding a mineral tanning agent and a grease to a flowing aqueous slurry containing the fibrous portions of untanned animal skin products in suspension, adding ammonium chloride, rubber latex and a preservative for the rubber of the latex to the slurry, and abstracting the

liquid of the slurry.

3. The process which comprises adding a mineral tanning agent and a grease to a flowing aqueous slurry containing the fibrous portions of untanned animal skin products in suspension, adding ammonium chloride and thereupon a water insoluble binder and a preservative therefor to the slurry, and abstracting the liquid of the slurry.
This specification signed this 21st day of

June, 1930.

ANTONIO FERRETTI.

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