## UNITED STATES PATENT OFFICE

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## 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. 468,127.

5 jects the provision of a process adapted for of this material promoting the abstracting of 55

of great economical value in that it salvages improved. or utilizes material which heretofore generally has been converted into glues or fer-

15 tilizers or simply thrown away.

In the practice of my invention the vege-20 of the fibers in aqueous suspension is obtained. operations employed in the finishing of nat- 70 The proportion of aqueous medium to the ma-ural leathers. terial being treated is necessarily large so as 
It is to be understood that the amount of to obtain the desired thin flowing mass or ammonium chloride employed will vary deslurry.

To this slurry I add a mineral tanning also depending upon the separation or the 75 agent having a chrome base such as chromine abstracting of the liquid of the slurry that is or other tanning agent containing chromium, desired in the production of a sheet-like fifollowed by the addition of a neutralizing brous mass. agent such as bicarbonate of soda, borate of I find in the practice of my invention that 30 sodium, etc., a suitable fiber lubricant or some care must be exercised not to allow 80 grease such as an oil or grease which is emulsi- coagulation of the binder employed to profiable in water, a sulfurated oil for example, ceed to a detrimental degree before abstracta suitable binding material containing a water ing the liquid of the slurry, inasmuch as insoluble binder, the binding material being such detrimental coagulation renders further 35 miscible with water prior to the coagulation processing and the properties of the finished 85 of the binder, such as indiarubber latex, gutta product unsatisfactory. For example, when percha latex, balata latex, or the like, as ob- employing latex as a binding material I pretained from the trees or plants and which may fer to abstract the liquid of the slurry within have been preserved by ammonia or any other an hour of the addition of the binding ma-40 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 May 24, 1929. slurry may be substituted for the latices 45 above mentioned.

material, which preservative may take the aqueous slurry containing the fibrous por-

This invention relates to a process of treat- Inasmuch as the liquid of the slurry must ing animal skin materials or animal skin be abstracted in the further practice of my products, as distinguished from the treatment process I add to the slurry a material such as of wool, hair, etc., and has for one of its ob- commercial ammonium chloride, the addition utilizing scraps and cuttings from vegetable the liquid of the slurry and being of material tanned hides whereby such materials may be advantage in the making of sheets of subconverted into a useful and valuable product stantial thickness. I find also that if amwhich in appearance, fibrous texture and monium chloride is added directly after the 10 flexibility resembles natural leather. latex and before abstracting the liquid, the 60 It will be appreciated that my invention is process and resulting product are materially

After the above steps, the slurry is caused to flow upon a finely perforated support such as a wire gauze and the liquid of the slurry 85 abstracted so that a sheet of fibers is obtained table tanned fibers of the material being with the fibers disposed in felted relation. treated are intimately admixed with an The material thus obtained is then rolled and aqueous medium until a thin flowing slurry pressed and subjected to the usual finishing

pending upon the material being treated and

terial to the slurry.

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

What I claim is:—

1. The process which comprises adding a 95 I also add a preservative for the binding tanning agent, and a grease to a flowing form of vegetable tannin. Among the vegetions of vegetable tanned animal skin prodtable tannins I preferably employ those of ucts in suspension, adding a water insoluble 50 the pyrogallic series, more particularly sumac. binder and a preservative therefor and am- 100 monium chloride, and abstracting the liquid

of the slurry.

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

This specification signed this 21st day of

June, 1930.