

UNITED STATES PATENT OFFICE.

JULES ERNEST MARTIN BOURGEOIS, OF PARIS, FRANCE, ASSIGNOR TO
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DRESSING COMPOUND FOR LEATHER.

SPECIFICATION forming part of Letters Patent No. 526,769, dated October 2, 1894.

Application filed June 12, 1894. Serial No. 514,344. (No specimens.) Patented in France October 20, 1893, No. 233,539.

To all whom it may concern:

Be it known that I, JULES ERNEST MARTIN BOURGEOIS, a citizen of the Republic of France, residing at 38 Rue Louis Braille, Paris, France, have invented new and useful Improvements in the Manufacture of Dubbing or Dressing for Leather, (for which I have obtained a patent in France, No. 233,539, bearing date October 20, 1893,) of which the following is a specification.

This invention relates to improvements in the manufacture of dubbing or dressing for leather, and consists in the combination of the ingredients as hereinafter fully described and claimed.

My formula for the manufacture of such improved dubbing or dressing is as follows: mineral oil, sixty parts; vegetable oil, twenty parts; fish oil, ten parts; water, twelve parts; monohydrated oxide of calcium, three parts.

To manufacture the composition proceed as follows: First place the water and lime well diluted in a boiler or other suitable vessel of a containing capacity at least one half greater than the quantity of the composition to be made, in order to prevent the overflow of the ingredients when in a state of ebullition. Then add the vegetable oil, and a corresponding portion of the mineral oil, (*i. e.* twenty parts,) after which gradually heat the mixture to 85° or 90°, centigrade, taking care to continually stir the same until saponification takes place and it becomes an intimately mixed pasty mass. This will be in about five hours. Then add the remainder of the mineral oil, and also the fish oil and allow the mixture to cool. The composition is then ready for use and may be packed in pots, casks, boxes or other suitable receptacles.

The dubbing or dressing thus manufactured is an unctuous and perfectly homogeneous composition that can be readily applied by means of a brush or cloth or by the hand to the surface of boots, shoes, harness, straps, leather and leather goods of every description. It possesses the unique merit of combining in itself the following essential advantages which have never previously been found united in a single composition (that is to say)—it is perfectly harmless—it quickly penetrates the leather wherein it becomes

fixed and which it softens and renders impermeable to wet or damp. It does not prevent the article being polished after its application thereto. It does not soil or stain the clothes. When applied to harness it does not make the back of the horse greasy while it protects the harness from the injurious effects of the animal's perspiration. It retains its consistency in every temperature, is very portable and keeps in good condition indefinitely.

With respect to the mineral oil to be used boghead oil will be found the most advantageous as regards economy but the best results are obtained with American or Russian mineral oils. The composition varies in color and consistency according to the density color and quality of the mineral oil employed and if the latter be of great density a somewhat larger percentage thereof may be used.

The maximum percentage of mineral oil which can be used in the manufacture of the composition is eighty per cent.

As regards the vegetable oil to be used this may either be colza oil, cotton oil, maize oil, olive oil, or any other vegetable oil that liquefies at a moderate temperature. I have found in practice however that colza oil produces more perfect saponification and a better composition than any other vegetable oil besides which the composition does not oxidize like that made with other vegetable oils. If the percentage of the vegetable oil is increased the composition is rendered richer and more oily; if decreased the composition becomes poorer, and is more difficult to saponify. If desired the fish oil may be dispensed with and either mineral oil or tallow substituted therefor.

As already stated a portion only of the mineral oil is added at first thus allowing the vegetable oil to act as an intermediary between the mineral oil and the lime, the mineral oil being in itself incapable of saponification, while the percentage of lime employed is only sufficient to saponify about twenty parts of mineral oil and twenty parts of vegetable oil.

I wish particularly to point out that the essential feature of my invention consists in the employment in the manufacture of dubbing or dressing for leather of large percentages

of mineral oil varying from sixty per cent. up to eighty per cent. in combination with about three per cent. of monohydrated oxide of calcium.

5 What I claim, and desire to secure by Letters Patent of the United States, is—

A dubbing for leather goods, consisting of mineral oil, vegetable oil, fish oil, water, and monohydrated oxide of calcium, combined

and mixed together substantially as and in the proportions hereinbefore set forth.

JULES ERNEST MARTIN BOURGEOIS.

Witnesses:

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DAVID T. S. FULLER.