

UNITED STATES PATENT OFFICE.

THOMAS GEORGE FERMOR HESKETH, OF TOWCESTER, ENGLAND.

MANUFACTURE OF OINTMENTS.

SPECIFICATION forming part of Letters Patent No. 627,642, dated June 27, 1899.

Application filed October 24, 1898. Serial No. 694,439. (No specimens.)

To all whom it may concern:

Be it known that I, THOMAS GEORGE FERMOR HESKETH, a subject of the Queen of England, residing at Towcester, in the county of Northampton, England, have invented certain new and useful Improvements in the Manufacture of Ointments, (for which application for Letters Patent of Great Britain was filed on March 24, 1898, No. 7,169,) of which the following is a full, clear, and exact description.

This invention relates to the production of soaps, ointments, embrocations, and similar preparations having antiseptic and medicinal properties and depends upon the property possessed by formaldehyde of forming condensation products.

In carrying out my invention oily or fatty substances are treated at suitable temperatures with formaldehyde or its solutions under a reflux condenser at normal atmospheric pressure or in a closed vessel at increased pressure.

In order to make my invention clear, I will describe the production of the condensation compound of lanolin.

Any quantity of lanolin is mixed with an excess of formaldehyde solution and introduced into a vessel fitted with a reflux condenser, so that any vapors which might otherwise escape may be condensed and returned to the containing vessel. The contents are then heated in the usual manner, either by boiling water in a water-bath or by steam, to a temperature of about 100° centigrade for several hours, according to the quantity of material being manufactured. On the small scale five to six hours is found sufficient. The excess of formaldehyde solution is then removed, and the resulting compound is found to have a higher melting-point than lanolin and when hot to smell of formaldehyde. This compound is found to exercise most beneficial action upon the skins of man and animals and may be applied directly or incorporated with various well-known substances—such as vaselin, olive-oil, cold cream, and the like—to render its application easy and pleasant or may be mixed with lanolin.

When soap is required, a condensation product, as above described, may be incorporated

with the soap mass before pouring into the cooling-frames, or part of the fatty substance of the soap may be previously treated with formaldehyde, as described, and the condensation product added toward the end of the saponification, the manufacture being then proceeded with in the usual manner.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The manufacture of condensation compounds of formaldehyde with lanolin consisting in mixing lanolin with an excess of formaldehyde solution, then heating the mixture to about 100° centigrade for several hours, and afterward removing the excess of formaldehyde solution, substantially as described.

2. The manufacture of condensation compounds of formaldehyde with an oily or fatty substance consisting in mixing the oily or fatty substance with an excess of formaldehyde, then heating the mixture to a suitable temperature, and afterward removing the excess of formaldehyde, substantially as described.

3. The manufacture of medicinal and antiseptic ointment, embrocation and the like from condensation compounds, consisting in mixing lanolin with an excess of formaldehyde solution, then heating the mixture to about 100° centigrade for several hours, then removing the excess of formaldehyde solution, and incorporating said compounds with an ointment-vehicle, substantially as described.

4. The manufacture of medicinal and antiseptic ointment, embrocation and the like from condensation compounds, consisting in mixing an oily or fatty substance with an excess of formaldehyde, then heating the mixture to a suitable temperature, and afterward removing the excess of formaldehyde, and incorporating said compounds with an ointment-vehicle such as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

THOMAS GEORGE FERMOR HESKETH.

Witnesses:

FRED. FALLS,

JOHN MCPADDEN.