

UNITED STATES PATENT OFFICE

ROY M. METCALFE, OF OLYMPIA, WASHINGTON

HOSIERY PROTECTING COMPOUND

No Drawing.

Application filed May 31, 1928. Serial No. 282,053.

The invention aims to provide a new and improved compound for protecting silk and other hosiery against wear, for instance, at the heel, toe and knee.

5 The compound is preferably of about the consistency of hard soap and embodies a friction-reducing lubricant. It is rubbed upon desired portions of the hose to im-
10 pregnate the pores thereof and will hence reduce wear incident to rubbing against shoes and other apparel.

Another aim is to provide a compound which will not stiffen the hose and will not irritate the skin.

15 A still further aim is to make provision in the compound for dissolving the lubricant when washing the hose in water, so that all trace of the compound will vanish.

The compound embodies a lubricant, preferably paraffin, mixed with a quantity of soap, the soap serving to form a solvent for the lubricant when hose impregnated with the compound, are washed in water. Preferably, the soap is of a hard nature and substantially forty percent of it used with substantially sixty percent of the paraffin, and a sufficient quantity of any desired dye may be added, to give to the compound the shade of the hosiery with which it is to be used.
30 The following formula however may be followed to produce a compound for use upon white hosiery, and no dye is required with this mixture:

	Per cent
35 Sodium caprate-----	2
Sodium laurate-----	4
Sodium myristate-----	3
Paraffin-----	60
Sodium oleate-----	21
40 Sodium palmitate-----	4½
Sodium stearate-----	5½

All of the above-named ingredients with the exception of the paraffin, constitute the elements of a well known white soap.

45 The ingredients may be mixed in any de-

sired manner, for instance, as described below:—

Paraffin is first melted and brought to the boiling point, and thereafter the separate ingredients are added one at a time, the order in which they are added being immaterial except that the dye (when used) must be added last. The compound should be stirred at all times while the mixing is in progress and the mixture should be effected at a boiling point when the fats are added. After the whole mixture has been effected, the same should be brought to the boiling point and immediately poured out into molds, preferably of such shape as to mold the product in stick form. This product, when no dye is used, has substantially the appearance of hard white soap. It is rubbed over those portions of hosiery which ordinarily receive most wear and has the effect of a lubricant, thereby preventing wear to a large extent. When the hosiery is washed, the soap and water mix to form an effective solvent for the paraffin so that all traces of it will be removed.

The invention is highly desirable from numerous standpoints and attention is invited to the fact that its use will not stiffen the hosiery, will not stain them or other parts of apparel with which they come in contact, and will not irritate the most delicate skin. Washing of the hosiery in cold water alone will remove all traces of the compound but warm water may be used if desired.

Attention may be invited to the fact that the only difference between the compound for white hosiery and that for hosiery of some color or shade, is the addition of dye to the compound. When this dye is used, the percentage of paraffin may be reduced and approximately from one to two percent of suitable dye used. For instance, to produce a product for use upon gray hosiery, fifty-nine percent paraffin and one percent lamp black are used with the same ingredients as the others, above specified. For a compound to

be used upon black hosiery, fifty-eight percent paraffin and two percent lamp black are used. For tan hosiery, fifty-nine percent paraffin and one-percent tannic acid may be employed.

5 I claim:—

A hosiery protecting compound comprising substantially sixty percent paraffin and substantially forty percent hard soap.

10 In testimony whereof I have hereunto affixed my signature.

ROY M. METCALFE

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