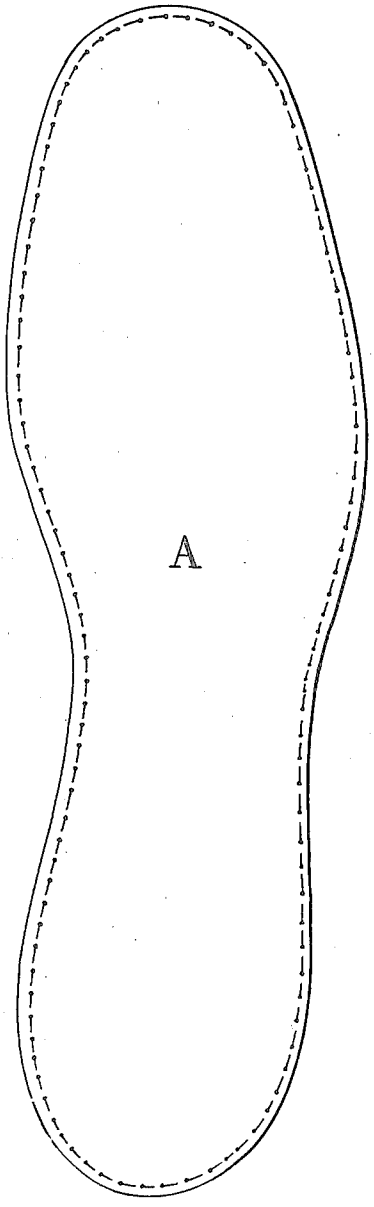
Jan. 23, 1923. 1,443,081

J. D. MACKINTOSH.
SOCK FOR BOOTS AND SHOES.
FILED DEC. 16, 1920.



INVENTOR
John Deckers Mackintosh
by C. O'Donnell O'Brien
atty

Patented Jan. 23, 1923. 1,443,081

UNITED STATES PATENT OFFICE.

JOHN DICKENS MACKINTOSH, OF MANCHESTER, ENGLAND.

SOCK FOR BOOTS AND SHOES.

Application filed December 16. 1920. Serial No. 431.176.

To all whom it may concern:

Be it known that I, JOHN DICKENS MACKINTOSH, a British subject, residing at Openshaw, city of Manchester, county of Lancaster, England, have invented certain new and useful Improvements in Socks for Boots and Shoes, of which the following is a specification.

This invention relates to improvements in socks or insoles for boots and shoes.

It consists essentially in treating a sock or insole constructed in the usual way of felt, wool, flannel, or the like, with capsicin, (extract of capsicum) and methyl salicylate (oil of wintergreen).

The sock or insole A is prepared in the usual way of felt, wool, flannel, or the like with or without a stiffening piece of cardboard. The material before being made up into the form of a sock or insole or the sock or insole is dyed with chrysoidium yellow to give it a yellow or orange colour.

The sock or insole is then saturated with a solution of capsicin made up as follows:—

Capsicin	1 oz.
Methylated spirit	50 oz. fluid.
Water	29 oz. fluid.

The sock or insole is then dried in warm room or chamber and after drying is sprayed with a solution of oil of wintergreen (methyl salicylate) and castor oil in methylated spirit made up in the following proportions:—

Oil of wintergreen	1 fluid oz.
Castor oil	1 fluid oz.
Methylated spirit	8 fluid oz.

The addition of the castor oil prevents the oil of wintergreen volatilizing too readily.

After spraying with the oil of wintergreen solution is dried at a temperature of about 120° F., and finally pressed.

Instead of treating the sock after it has been made up the material may be first treated and then made into a sock.

A sock or insole so treated will have thermal properties and assist in keeping the feet of the wearer warm in cold weather.

What I claim as my invention and desire to protect by Letters Patent is:—

1. An insole for boots or shoes impregnated with an extract of capsicum and oil of wintergreen (methyl salicylate) in an amount sufficient to produce a stimulant action without irritation.

2. The method of producing an insole having thermogenetic properties consisting in saturating the insole with a solution of capsicin in methylated spirit, drying, spraying with a solution of methyl salicylate and finally drying and pressing.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN DICKENS MACKINTOSH.

Witnesses:

J. OWDEN O'BRIEN,

GEO. H. O'BRIEN.