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UNITED STATES PATENT OFFICE

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BRAKE-LINING COMPOSITION

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This invention relates to a composition of matter compounded especially for making a paste to be applied to the surface of brake linings such as are used upon automobile brakes, the purpose of the invention being to reinforce the action of the brake lining, and to increase the life and wearing properties thereof. Persons familiar with the construction of brake linings are aware that they are usually made up of fiber, asbestos, and woven wire, compressed into a suitable width and thickness.

The asbestos is first treated with an oil or chemical to render it pliable. Then, within a short time, this lining is attached to the brake band of the automobile, for actual service. It is obvious however, that these linings dry out, become very hard, and the pores fill up with road dirt. This virtually forms an abrasive coating which has a tendency to wear both the lining and the brake drum.

After the linings have dried out, they are effected by water, in rainy or wet weather, and they become soft, and the brakes slip and drag. This destroys to a great extent, the value of the braking system.

The purpose of this invention is, therefore, to provide a composition which can be applied to the surface of the wearing lining to increase the gripping power and life.

The composition comprises a mixture of ingredients or agents in the following proportions:—

	Per cent
Paraffin oil	49
Fibre asbestos	43
Talcum	4⅓
Oil of cedar	2⅔

These agents when mixed together form a paste which can be readily applied to the surface of the brake lining.

When thus applied, the oil of cedar penetrates the lining, softens the asbestos as well as the dirt as collected in the pores of the lining. The paraffin oil being somewhat heavier in body than the oil of cedar, is then absorbed by the asbestos in the lining. During this action, the talcum and the very fine asbestos fibers are carried into the pores of the lining. The pressure exerted between the face of the brake lining and the brake drum with a wiping action due to the rotation of the brake drum, wipes the very heavy fibres of the compound on the face of the brake lining, which gives a new, soft, velvety surface on all of the brake linings. This naturally prolongs the life of the lining, and increases the efficiency of the brake, water-proofs the lining and reduces the abrasive disadvantage and stops the squawks and squeaks.

Without going further into the theoretical advantages of the compound, it is believed that a clear comprehension and understanding of the discovery will be apparent to persons skilled in this particular art. Consequently, a more lengthy description is regarded unnecessary.

In conclusion it is to be stated that the proportions, may be varied to the nature of the character of lining to which it is to be applied. Therefore, a liberal interpretation of the succeeding claims is in order.

Having thus described my invention, what I claim as new is:—

1. As a new product of manufacture, brake lining composition comprising the following ingredients compounded in the following proportions, paraffin oil 49%; fibre asbestos 43%; talcum 4⅓%; and oil of cedar 2⅔%.

2. As a new article of manufacture, a brake lining composition composed of paraffin oil, fibre asbestos, talcum, and oil of cedar.

In testimony whereof I affix my signature.

IRVINE D. EUBANKS.

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