

UNITED STATES PATENT OFFICE.

HENRY LEIX, OF BROOKLYN, AND EMIL M. LOWY, OF NEW YORK, N. Y., ASSIGNORS,
BY DIRECT AND MESNE ASSIGNMENTS, TO NATIONAL GLIDE PROOF COMPANY, OF
NEW YORK, N. Y.

PULLEY-DRESSING.

953,699.

Specification of Letters Patent.

Patented Apr. 5, 1910.

No Drawing.

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To all whom it may concern:

Be it known that we, HENRY LEIX, a citizen of Germany, Kingdom of Bavaria, residing at 315 Jay street, Brooklyn, in the county of Kings and State of New York, and EMIL M. LOWY, a citizen of Kingdom of Hungary, residing at 184 East Seventy-fifth street, New York city, in the county of New York and State of New York, have invented a certain new and useful Process in a Chemical Compound; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to compounds and more particularly to a compound formed by certain ingredients or elements incorporated together for the production of a reliable and efficient pulley dressing to prevent the slipping and sliding of transmission belts.

The belt-dressings in use at the present time contain gum and resin and must be applied to the belt at short intervals which means that the dressing must be renewed after a few days or weeks of using. Furthermore the present belt dressings in use lump up and make a black crust on the belt and on the pulley so that the belt does not rest on the full surface of the pulley causing the belt to slip and slide to a greater degree than before its use.

The main objects of our invention are as follows:

1. The dressing must be applied on the pulley and not on the belt and is usable for every transmission wheel, if of iron, steel, wood or paper.

2. When pulleys are dressed with our compound the machinery belts are absolutely prevented from slipping and sliding off the wheels by the adhesion of our compound which is three times as great as the adhesion of iron or steel and twice as much as wood or paper, thereby a greater working power will be obtained and much energy will be saved under ordinary circumstances where belts are used. There is a great loss of energy and working time and this will all be prevented by the use of our invention, for by preventing sliding and slipping the transmission will be more regular and uni-

form and the cost of operating thereby greatly diminished.

3. Our compound dries up after applying and gets hard like stone after a few hours and need only be renewed after two or three years. The adhesive properties of our compound remain always the same until the compound itself is worn off.

4. Our compound preserves the belt perfectly because it hardens thoroughly and does not close the pores of the belt. The compound is fire and water proof and can be worked in any temperature or in places which are moisture laden.

The following is the method of producing and applying our improved compound. The formula herewith presented is for making any quantity of the dressing.

The formula is as follows: 1, asbestos-powder; 2, marble-powder; 3, sand (finest quartz sand;) 4, chalk-powder; 5, graphite-powder; 6, kaolin (powdered;) 7, silicate soda solution.

The foregoing ingredients are compounded as follows: We first put $3\frac{1}{2}$ volumes asbestos-powder, together with 1 volume marble-powder, 3 volumes finest quartz-sand, 1 volume chalk-powder, $\frac{1}{2}$ volume graphite-powder, 1 volume kaolin (powdered.)

These ingredients must be thoroughly mixed. After mixing three volumes of silicate soda solution are added and then it is again mixed producing a compound which can be kneaded. The compound must be mixed so thoroughly that a smooth pulpy mass results which is the desired compound and which must be kept airtight. The compound is then applied to the wheels which transmit or take up the power.

Having thus fully described our invention what we claim as new and desire to secure by Letters Patent, is:

1. The herein described compound of matter consisting of: 1, asbestos-powder; 2, marble-powder; 3, sand (quartz-sand;) 4, chalk-powder; 5, graphite-powder; 6, kaolin (powdered;) 7, silicate soda solution; substantially as described and for the purpose specified.

2. The herein described compound of matter for use as a pulley dressing preventing sliding and slipping of transmission belts

and preserving the belts consisting of: 3½
volumes asbestos-powder, 1 volume marble-
powder, 3 volumes quartz sand, 1 volume
chalk powder, ½ volume graphite-powder,
5 1 volume kaolin, (powdered,) 3 volumes sili-
cate soda solution, substantially as described.

Dated, New York, October 14, 1909.

In testimony whereof we have signed our

names to these specifications in the presence
of two subscribing witnesses.

HENRY LEIX.
EMIL M. LOWY.

Witnesses:

LOUIS I. TURNER,
ROMEO MARTEN.