

(No Model.)

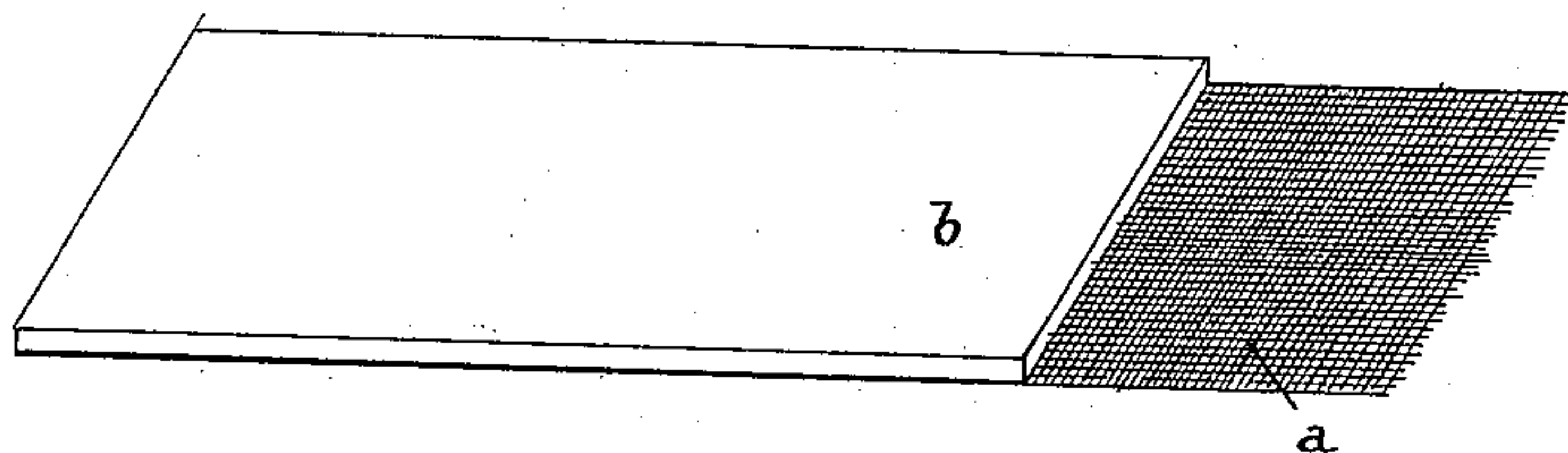
G. M. LINDSEY.

PULLEY COVERING.

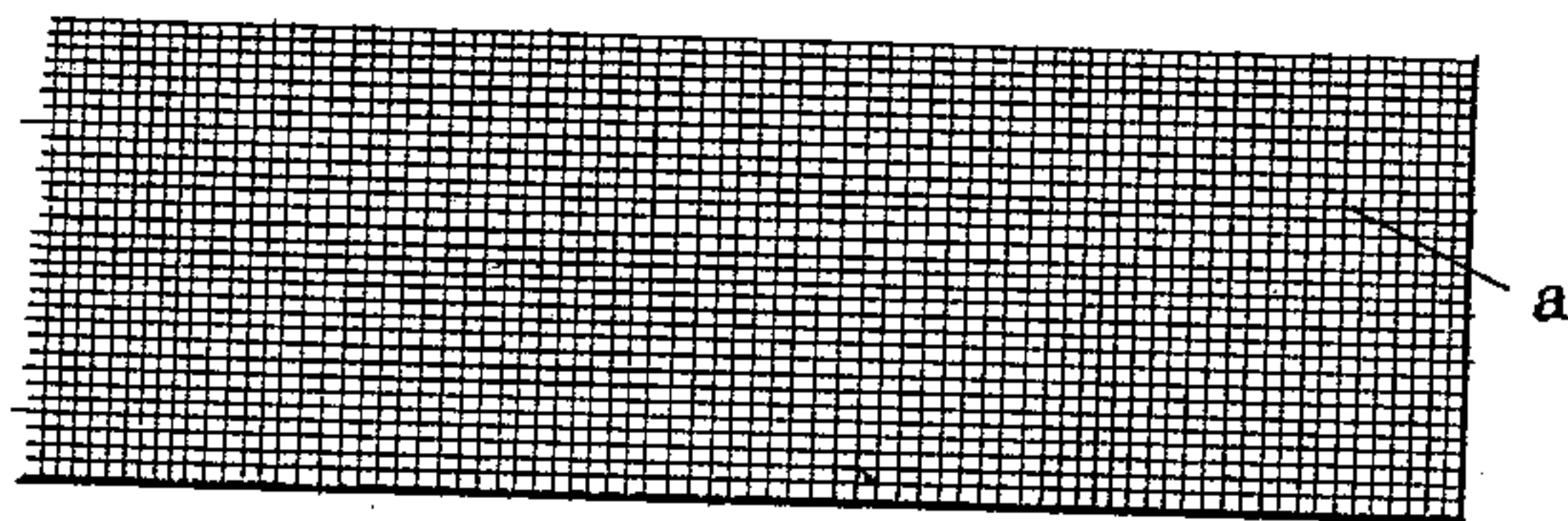
No. 330,598.

Patented Nov. 17, 1885.

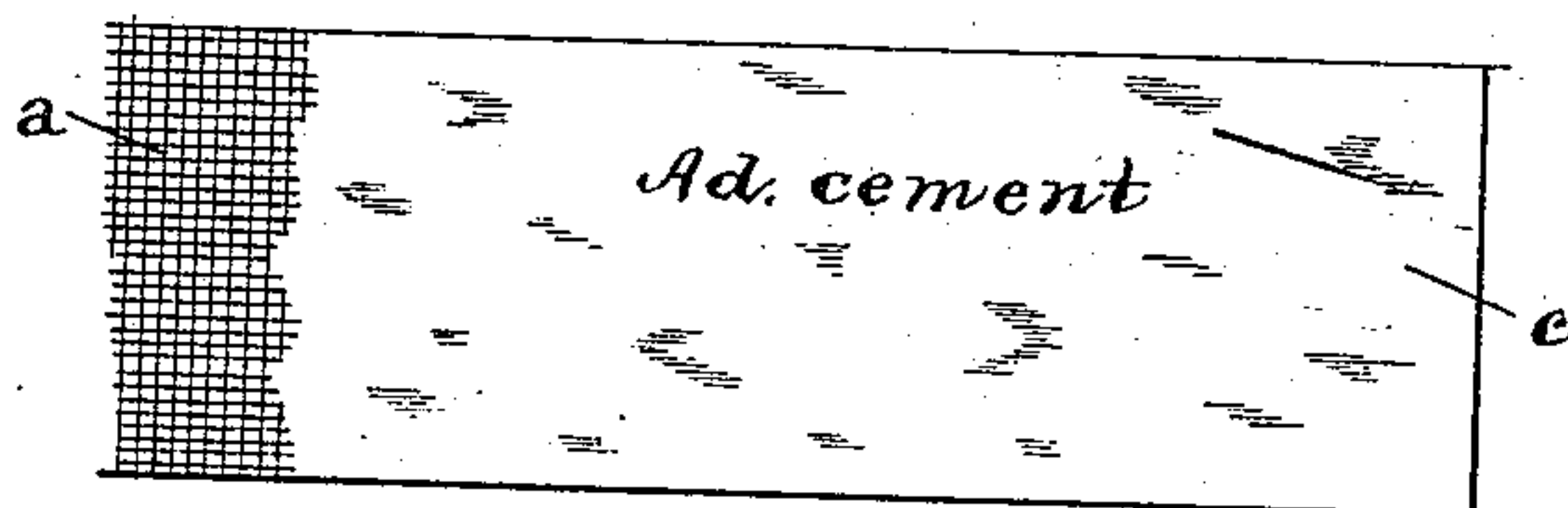
*Fig. 1*



*Fig. 2*



*Fig. 3*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## PULLEY-COVERING.

SPECIFICATION forming part of Letters Patent No. 330,598, dated November 17, 1885.

Application filed March 16, 1885. Serial No. 159,004. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE M. LINDSEY, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Pulley-Coverings, of which the following is a specification.

My invention relates to an improved pulley-covering for preventing machine-belts from slipping.

The object of the invention is to provide a new article of manufacture, consisting of an improved pulley-covering material, having one surface coated with a water-soluble cement and adapted for permanent adhesion to the pulley, the purpose being to place the finished article on the market in a condition ready prepared for application to the pulley.

The accompanying drawings illustrate the improved covering.

Figure 1 is an upper side view of the covering. Fig. 2 is a lower side view of the covering material previous to the application thereto of the cement. Fig. 3 is a view showing the lower side when cemented or finished. One end, however, for illustration, is left uncoated or without cement.

A water-proof composition consisting of boiled linseed-oil and ground cork in large proportions, and one or more other ingredients—such as paper-pulp, wood pulp, sawdust, or suitable fibrous material in small proportions—also india-rubber or other vegetable gums may enter as ingredients—is spread, while hot and in a plastic state, on a backing of loosely-woven fabric of jute or cotton, and pressed thereon by means of rollers. The above constitutes a fabric well known to the carpet trade under the name of "linoleum," and is used largely for floor-cloths. As this article is described in various English and United States patents, the further description of the ingredients or the manner of mixing them and manufacturing the fabric is unnecessary here.

In the drawings, the letter *a* designates the backing of loosely-woven fabric, and *b* the composition of boiled oil and ground cork or similar material attached to the backing. This

composition and backing constitute a fabric possessing some elasticity, which is a very desirable characteristic. To the said backing *a*, of loosely-woven fabric, I apply a coat of suitable cement, *c*, which must be soluble in water, and when the cement is dry the pulley-covering is complete and fully prepared for the pulley, and may be rolled like belting, and kept an indefinite time, stored, or shipped. Any water-soluble cement may be used which will dry to permit the covering to be rolled, and which when made wet will cause the fabric to adhere to the face of the pulley. Whatever kind of cement is used, I apply it to the woven-fabric backing preferably in three coats. When applied as the first coat, it should be sufficiently thin or limpid to facilitate its penetration into the backing, thereby so far incorporating it with the loosely-woven backing as to insure a good hold or grip. When the succeeding coats have been applied and dried, the article is complete.

To apply the covering to a pulley, having cut the covering to the proper size for the pulley, the face of the pulley must first be cleaned of all grease or other matter. This can be done by the use of lye or strong soap and water. The pulley should be wiped dry. The covering should be wet with clean water, and then allowed to stand until the cement is softened. The cement side of the covering is then to be applied to the face of the pulley and rubbed down hard to exclude all air. If the belt is on the pulley, the latter should be turned so as to bring the joint formed by the adjoining ends of the cover under the back side of the belt. The latter will thus hold the covering until the cement sets. If the belt is off the pulley, the covering may be confined there-to until the cement sets by winding a cord around the cover.

I am aware that elastic fabrics of various kinds have been used as pulley-coverings, and that it has been proposed to use for this purpose a vulcanized-rubber surface having an inside coating of raw rubber to cement said vulcanized rubber to the pulley. From what has heretofore been stated it will be seen that my covering differs materially from these.



Having described my invention, I claim and desire to secure by Letters Patent of the United States—

5 A covering for pulleys, having in combination a backing of loosely-woven material, a facing of ground cork and boiled oil, substantially as described, spread and dried on one side of said backing, and a coating of water-

soluble cement on the other side of the backing, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE M. LINDSEY.

Witnesses:

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JNO. T. MADDOX.