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941 O.G. 7

T941,012

FRICION MATERIAL INCLUDING GLASS FIBERS AND METHOD OF MANUFACTURE

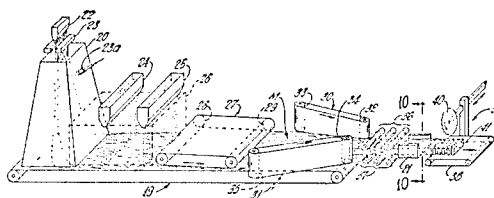
Alfred Marzocchi, 35 Thomas Leighton Blvd.,
Cumberland, R.I. 02854

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U.S. Cl. 65--3

2 Sheets Drawing, 27 Pages Specification



A brake lining or friction material comprised of glass fibers secured within a rigid binder and having a substantial number of ends of convolutions intersecting with the braking surface of the material. The material preferably comprises a plurality of bonded fibers generally extending in a common direction and intersecting with said braking surface. The fiber alignment may be positioned relative to the direction of relative movement of the braking members for optimum braking efficiency in one direction. Such aligned fiber materials may be produced in a continuous process in the form of uncured blocks of aligned fibers and binder which are subsequently formed under elevated pressure and temperature into brake pads or shoes or other friction components. Brake pads having aligned or oriented fibers may be produced in a continuous process, starting with the forming of glass fibers from a molten batch, depositing a ribbon of aligned fibers upon a moving conveyor, applying liquid or powdered binder to the fibers, reducing the lateral and vertical volume of the ribbon to increase the density of the fiber-binder mix and finally separating the ribbon into shapes having a surface which intersects the aligned fibers.

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A. MARZOCCHI
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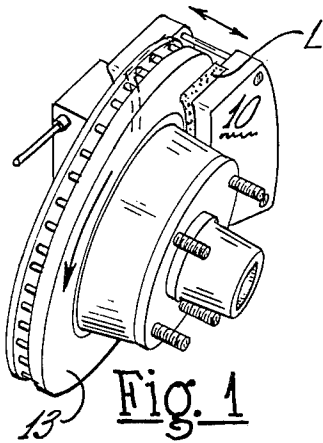


Fig. 1

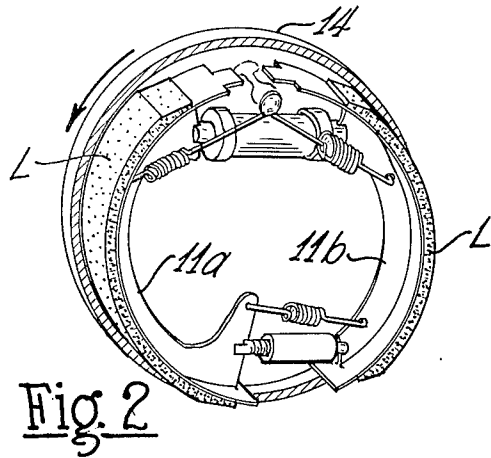


Fig. 2

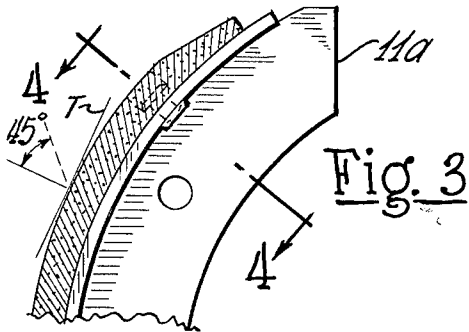


Fig. 3

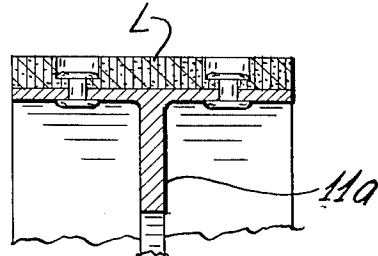


Fig. 4

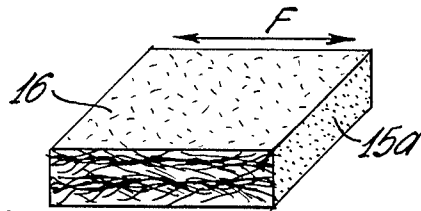


Fig. 5A

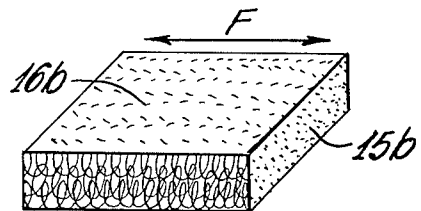


Fig. 5B

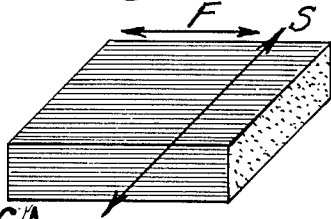


Fig. 6A

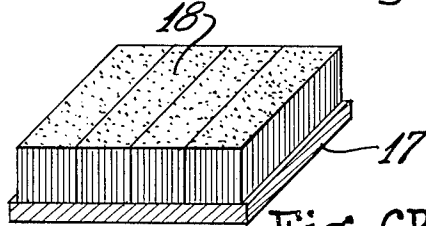


Fig. 6B

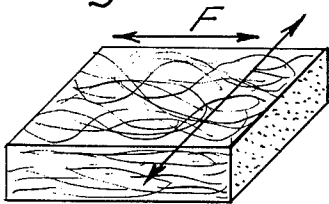


Fig. 7A

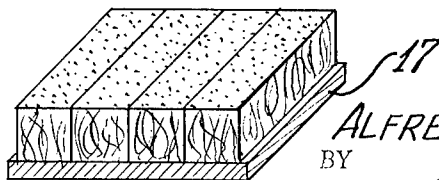


Fig. 7B

INVENTOR.
ALFRED MARZOCCHI
BY

Stealin & Overman
ATTORNEYS

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