

Title (en)
FRICTION MATERIALS AND THEIR USES

Publication
EP 0000840 B1 19810701 (EN)

Application
EP 78300259 A 19780808

Priority
• GB 3348277 A 19770810
• GB 3348377 A 19770810

Abstract (en)
[origin: EP0000840A1] The invention concerns a composition for a friction material, e.g. for a brake lining or clutch facing, of the type containing a fibrous reinforcement, a binder and various additives. The friction material contains no asbestos, but has properties comparable with asbestos-based materials. The composition contains a thermoset binder, which may be based on a phenol-formaldehyde resin, or a heat and chemical resistant rubber, the binder making up 15 to 40% by volume of the material. The fibrous reinforcement is a mixture of an inorganic fibre selected from metal fibres, e.g. steel glass fibre, mineral wools manufactured from slags or naturally occurring rocks such as basalt, silica fibres and ceramic fibres of the alumino silicate type; with at least one organic fibrous material such as wood pulp, jute, sisal, cotton. 70 to 4% by volume of the material consists of the fibrous reinforcement, preferably 50 to 10% by volume. The inorganic fibrous material is the main reinforcement of the friction material, the organic fibrous material providing integrity and strength during manufacture.

IPC 1-7
F16D 69/02; **C08J 5/00**

IPC 8 full level
C08J 5/00 (2006.01); **C08J 5/14** (2006.01); **D01G 13/00** (2006.01); **F16D 69/02** (2006.01)

CPC (source: EP)
C08J 5/00 (2013.01); **D01G 13/00** (2013.01); **F16D 69/026** (2013.01)

Cited by
EP1840406A1; EP0050377A1; EP0180381A3; DE3117823A1; EP0579180A1; US6107386A; US4617162A; FR2457887A1; EP0492601A3; US5360842A; EP0147508A1; CN111455560A; DE3225214A1; EP0781935A3; DE3329063A1; TR27256A; EP0176193A1; US4631209A; EP0122562A1; US7195694B2; WO8701774A1; WO9731196A1; WO0066819A1; WO9222756A1; US8808412B2; US9586307B2; EP0035463B1; EP0054260B1

Designated contracting state (EPC)
BE CH DE FR GB LU NL SE

DOCDB simple family (publication)
EP 0000840 A1 19790221; **EP 0000840 B1 19810701**; AU 3875578 A 19800214; BR 7805105 A 19790424; CS 216920 B2 19821231; DD 138075 A5 19791010; DE 2860811 D1 19811008; IN 148772 B 19810606; JP S5434350 A 19790313

DOCDB simple family (application)
EP 78300259 A 19780808; AU 3875578 A 19780809; BR 7805105 A 19780809; CS 524478 A 19780810; DD 20721378 A 19780810; DE 2860811 T 19780808; IN 571DE1978 A 19780803; JP 9774878 A 19780810