

Title (en)
IMPROVEMENTS IN OR RELATING TO FRICTION MATERIALS

Publication
EP 0000839 B1 19810805 (EN)

Application
EP 78300258 A 19780808

Priority
GB 3345877 A 19770810

Abstract (en)
[origin: EP0000839A1] Composition for a friction material e.g. for a brake pad, 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 including a phenol-formaldehyde resin and making up 20 to 60% by volume of the material. Besides the resin the binder can also include a heat and chemical resistant rubber, but the phenol-formaldehyde resin makes up at least 10% by volume of the composition. <??>The composition includes a fibre-based reinforcement which makes up to 10 to 35% by volume of the material and consists of a mixture of steel fibres or glass fibres with one or more other non-asbestos inorganic reinforcing materials e.g. steel fibre and mica, or steel fibre and milled glass.

IPC 1-7
F16D 69/02; **C08J 5/14**

IPC 8 full level
C08J 5/14 (2006.01); **C08L 9/02** (2006.01); **F16D 69/02** (2006.01); **C08K 7/04** (2006.01); **C08L 61/06** (2006.01)

CPC (source: EP US)
F16D 69/026 (2013.01 - EP US)

Cited by
EP0415459A3; EP0050377A1; FR2639695A1; EP0180381A3; TR27256A; FR2423683A1; WO9205370A1; WO9309362A1; WO8908685A1; WO9222756A1; EP0035463B1

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

DOCDB simple family (publication)
EP 0000839 A1 19790221; **EP 0000839 B1 19810805**; AU 3875478 A 19800214; BR 7805104 A 19790424; CS 216919 B2 19821231; DD 138076 A5 19791010; DE 2860901 D1 19811105; GB 1604839 A 19811216; IN 148770 B 19810606; IT 1156900 B 19870204; IT 7850665 A0 19780809; JP S5434349 A 19790313; SU 837328 A3 19810607; US 4273699 A 19810616; US 4310452 A 19820112; ZA 784379 B 19790725

DOCDB simple family (application)
EP 78300258 A 19780808; AU 3875478 A 19780809; BR 7805104 A 19780809; CS 524378 A 19780810; DD 20721478 A 19780810; DE 2860901 T 19780808; GB 3345877 A 19770810; IN 566DE1978 A 19780801; IT 5066578 A 19780809; JP 9774778 A 19780810; SU 2649254 A 19780810; US 14969780 A 19800514; US 92953578 A 19780731; ZA 784379 A 19780802