

Title (en)
Explosion protection mat.

Title (de)
Sprengschutzmatte.

Title (fr)
Tapis de protection contre l'explosion.

Publication
EP 0592821 A1 19940420 (DE)

Application
EP 93114717 A 19930914

Priority
DE 4234369 A 19921012

Abstract (en)
The known explosion protection mats are costly to manufacture and offer little protection against the pressure forces occurring in the event of explosions. The new explosion protection mat is intended to have a sufficiently high protection effect against projectiles, fragments and the detonation pressure, as well as low weight and a low manufacturing cost. The explosion protection mat consists of a plurality of layers (2) of antiballistic flat material which are embedded in a matrix of flexible material, especially rubber, a composite plate (3) which is stiff in terms of bending being arranged between two inner layers of the textile flat material. <IMAGE>

Abstract (de)
Die bekannten Sprengschutzmatten sind aufwendig herzustellen und bieten wenig Schutz gegen die bei Explosionen auftretenden Druckkräfte. Die neue Sprengschutzmatte soll bei niedrigem Gewicht und geringem Herstellungsaufwand eine ausreichend hohe Schutzwirkung vor Geschossen, Splintern sowie dem Detonationsdruck haben. Die Sprengschutzmatte besteht aus mehreren Lagen (2) antibalistischer Flächengebilde, die in eine Matrix aus flexiblem Material, insbesondere Gummi, eingebettet sind, wobei zwischen zwei inneren Lagen des textilen Flächengebildes eine biegesteife Verbundplatte (3) angeordnet ist. <IMAGE>

IPC 1-7
F41H 5/04

IPC 8 full level
B32B 3/12 (2006.01); **B32B 3/28** (2006.01); **F41H 5/04** (2006.01); **F41H 7/04** (2006.01); **F42D 5/05** (2006.01)

CPC (source: EP US)
F41H 5/0457 (2013.01 - EP US); **F41H 5/0478** (2013.01 - EP US); **F41H 7/042** (2013.01 - EP US); **Y10S 428/911** (2013.01 - EP)

Citation (applicant)
DE 2927653 A1 19810129 - HOPP ING BUERO

Citation (search report)
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• [X] DE 2927653 A1 19810129 - HOPP ING BUERO
• [X] WO 9107275 A1 19910530 - ROYAL ORDNANCE PLC [GB]
• [A] DE 3934558 A1 19910418 - KELLNER GERD DR ING [DE]

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EP2338768A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI NL SE

DOCDB simple family (publication)
US 5517894 A 19960521; AT E144826 T1 19961115; DE 4234369 C1 19940317; DE 59304354 D1 19961205; DK 0592821 T3 19970401; EP 0592821 A1 19940420; EP 0592821 B1 19961030; ES 2093897 T3 19970101; GR 3022176 T3 19970331; IL 107099 A0 19940731; IL 107099 A 19970318; JP H06201298 A 19940719

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US 47496595 A 19950607; AT 93114717 T 19930914; DE 4234369 A 19921012; DE 59304354 T 19930914; DK 93114717 T 19930914; EP 93114717 A 19930914; ES 93114717 T 19930914; GR 960403635 T 19961230; IL 10709993 A 19930923; JP 25458893 A 19931012