

Title (en)
Ballistic-resistant moulded article and manufacturing method therefore

Title (de)
Geformter ballistischer Gegenstand und Herstellungsverfahren dafür

Title (fr)
Objet ballistique moulé et son procédé de fabrication

Publication
EP 0768507 B1 20010117 (EN)

Application
EP 96202774 A 19961004

Priority
NL 1001415 A 19951013

Abstract (en)
[origin: EP0768507A1] The invention relates to a ballistic-resistant article containing a compressed stack of monolayers, with each monolayer containing unidirectionally oriented reinforcing fibres and a matrix consisting of a polymer, the fibre direction in each monolayer being rotated with respect to the fibre direction in an adjacent monolayer. The moulded article has both a high structural stiffness and dimensional stability and a high protection level and a low trauma effect because the monolayer has a fibre content of between 20 and 145 g/m² and a matrix content of at most 25 wt.%, the reinforcing fibres are aramid fibres and the matrix polymer has a modulus of elasticity of more than 200 MPa.

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F41H 5/04

IPC 8 full level
F41H 5/04 (2006.01)

CPC (source: EP)
F41H 5/0485 (2013.01)

Citation (examination)
US 4820568 A 19890411 - HARPELL GARY A [US], et al

Cited by
ES2260998A1; US6562435B1; US8021592B2; WO0061435A1; US8052913B2; US8268439B2; US8664328B2; US8871333B2; US9403341B2; US10850479B2; US7629277B2; EP1627719A1; US7993715B2; US8617680B2; EP3015240A1; EP3231571A1; US10598465B2

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