

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/m<sup>2</sup> 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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