

Title (en)  
CABLE SHIELD MADE OF FIBRE REINFORCED MATERIAL

Title (de)  
KABELSCHIRM AUS FASERVERBUNDWERKSTOFFEN

Title (fr)  
BLINDAGE DE CABLE CONSTITUE DE MATERIAUX RENFORCES PAR DES FIBRES

Publication  
**EP 1163684 A1 20011219 (DE)**

Application  
**EP 00914037 A 20000223**

Priority  
• DE 0000502 W 20000223  
• DE 19907675 A 19990223

Abstract (en)  
[origin: DE19907675A1] The invention relates to a device for electromagnetically shielding any kind of electrical conductors (e.g. component conductors, conductor bundles and coaxial cables). The main advantage in comparison with the shields used so far is a significant reduction in weight and an improved damping in the high MHz range. This is achieved by using materials (e.g. carbon fibres) as shields, whereby said materials are provided with an essentially lower conductivity than metal shields. Even metal shields are not damped in the lower frequency range, the existing conductivity in the higher frequency range (> 1 MHz), however, is high enough to attain the transfer impedance values of metal shields due to the fact that inductive and capacitive losses are less important, whereby said effect is utilised. Another advantage of the invention is that the shield is not affected by corrosion and can be produced in a substantially easier manner in relation to metallic conductive shields. The invention can be especially be used as cabling in aircrafts and motor vehicles requiring weight-reducing solutions.

IPC 1-7  
**H01B 11/10**

IPC 8 full level  
**H01B 11/10** (2006.01)

CPC (source: EP)  
**H01B 11/1033** (2013.01)

Citation (search report)  
See references of WO 0051143A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**DE 19907675 A1 20000914**; BR 0008412 A 20020129; EP 1163684 A1 20011219; JP 2002538581 A 20021112; WO 0051143 A1 20000831

DOCDB simple family (application)  
**DE 19907675 A 19990223**; BR 0008412 A 20000223; DE 0000502 W 20000223; EP 00914037 A 20000223; JP 2000601658 A 20000223