

Title (en)
PERSONNEL PROTECTIVE ARRANGEMENT

Title (de)
PERSONENSCHUTZANORDNUNG

Title (fr)
DISPOSITIF DE PROTECTION PERSONNEL

Publication
EP 1740902 A2 20070110 (EN)

Application
EP 05810157 A 20050202

Priority
• US 2005002826 W 20050202
• US 54138604 P 20040202

Abstract (en)
[origin: WO2006022814A2] An armored land vehicle adapted to protect occupants from forces of explosions detonated beneath the vehicle including a penetration resistant bottom plate, a floor plate located substantially above and spaced from the bottom plate, energy absorbing members interposed between the bottom plate and the floor plate and seats on a seat plate supported by acceleration attenuating suspension supports. The personnel protective floor system for an armored vehicle includes crushable members supporting a floor plate on members secured to a bottom plate of the vehicle. These support members are plastically deformable in a predetermined and predicable manner under the forces imposed by a land mine exploding under the vehicle. Since much of the energy of the shock load imposed by the explosion is dissipated by the plastic deformation of the support members, the possibility of injury to personnel inside the vehicle is reduced, particularly injury to the lower extremities.

IPC 8 full level
F41H 5/04 (2006.01)

CPC (source: EP KR)
F41H 5/013 (2013.01 - KR); **F41H 7/02** (2013.01 - KR); **F41H 7/042** (2013.01 - EP KR)

Cited by
US8960068B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
WO 2006022814 A2 20060302; **WO 2006022814 A3 20070412**; EP 1740902 A2 20070110; EP 1740902 A4 20110504;
EP 1740902 B1 20120822; JP 2007519890 A 20070719; JP 4571153 B2 20101027; KR 100852566 B1 20080818; KR 20070005606 A 20070110

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US 2005002826 W 20050202; EP 05810157 A 20050202; JP 2006552175 A 20050202; KR 20067017449 A 20060829