

Title (en)
BLAST-RESISTANT BARRIER

Title (de)
STRAHLUNGSFESTE BARRIERE

Title (fr)
BARRIÈRE RÉSISTANT À L'EXPLOSION

Publication
EP 2209957 A4 20140122 (EN)

Application
EP 08872862 A 20081107

Priority
• US 2008012574 W 20081107
• US 98398007 A 20071113

Abstract (en)
[origin: WO2009108167A2] A blast-resistant barrier comprising a plurality of units each including a panel having a thickness of greater than 20 to less than 40 millimeter is disclosed. The panel is in the form of a monolithic polycarbonate sheet or laminate that is positioned vertically between the source of a blast and the blast target, the laminate including at least two polycarbonate sheets and an optional image layer interposed therebetween. The panel is fixedly attached to a frame which is firmly embedded in concrete in a manner calculated to provide stiffness sufficient to absorb and withstand external forces resulting from said blast. In a preferred embodiment the panel includes at least two polycarbonate sheets laminated one to the other, optionally including an image layer interposed therebetween. In an additional embodiment, the frame is anchored securely to the target enabling dissipation of the blast force through the target's structure. The height of the blast-resistant barrier is preferably proportional to the height of the target.

IPC 8 full level
A62C 2/06 (2006.01); **E04C 2/20** (2006.01); **E04C 2/38** (2006.01); **E04H 9/10** (2006.01); **E06B 3/76** (2006.01); **E06B 3/78** (2006.01); **E06B 5/16** (2006.01); **F41H 5/013** (2006.01); **F41H 5/04** (2006.01); **F41H 5/24** (2006.01); **F41H 5/26** (2006.01)

CPC (source: EP KR US)
E04C 2/20 (2013.01 - EP US); **E04C 2/22** (2013.01 - KR); **E04C 2/26** (2013.01 - KR); **E04C 2/384** (2013.01 - EP US); **E04H 9/04** (2013.01 - KR); **E04H 9/10** (2013.01 - EP US); **F41H 5/013** (2013.01 - EP US); **F41H 5/0407** (2013.01 - EP US); **F41H 5/24** (2013.01 - EP US)

Citation (search report)
• [IY] DE 4223538 C1 19931104 - DEUTSCHE AEROSPACE [DE]
• [Y] US 2007163189 A1 20070719 - VENEGAS FRANK JR [US]
• [Y] WO 2007038505 A2 20070405 - HIGH IMPACT TECHNOLOGY LLC [US]
• [Y] WO 2005014964 A1 20050217 - HAMILTON ERSKINE LTD [GB], et al
• [Y] EP 0958975 A1 19991124 - HARRIMAN NEIL [GB]
• [Y] US 5668344 A 19970916 - BORNSTEIN AVRAHAM [IL]
• [Y] JP 2005241183 A 20050908 - MITSUBISHI HEAVY IND LTD
• [Y] FR 2740211 A1 19970425 - FRANCE ETAT [FR]
• See references of WO 2009108167A2

Cited by
WO2015048211A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2009108167 A2 20090903; **WO 2009108167 A3 20091022**; AU 2008351442 A1 20090903; CN 101855415 A 20101006; CN 104912218 A 20150916; CN 104912218 B 20190910; EP 2209957 A2 20100728; EP 2209957 A4 20140122; IL 204939 A0 20101130; IL 204939 A 20130131; JP 2011508679 A 20110317; KR 20100090771 A 20100817; US 2011048219 A1 20110303

DOCDB simple family (application)
US 2008012574 W 20081107; AU 2008351442 A 20081107; CN 200880116446 A 20081107; CN 201510354530 A 20081107; EP 08872862 A 20081107; IL 20493910 A 20100408; JP 2010534022 A 20081107; KR 20107010427 A 20081107; US 98398007 A 20071113