

Title (en)
GRENADE, IN PARTICULAR 40 MM GRENADE

Title (de)
GRANATE, INSBESONDERE 40-MM-GRANATE

Title (fr)
GRENADE, NOTAMMENT GRENADE DE 40 MM

Publication
EP 2872850 B1 20160921 (DE)

Application
EP 13732362 A 20130621

Priority
• DE 102012014043 A 20120714
• EP 2013001856 W 20130621

Abstract (en)
[origin: WO2014012616A1] A grenade, in particular 40 mm grenade, having a cartridge, having a projectile and having a high-pressure/low-pressure ignition system comprising a hollow cylindrical chamber component with a high-pressure chamber which accommodates a propellant charge and with a low-pressure chamber situated outside the chamber component, which chambers can be connected to one another via one or more ducts, which can be opened by means of the pressure generated during the ignition of the propellant charge, in the chamber component, wherein the high-pressure chamber (12) is divided by a rupture diaphragm (16) into a first chamber section (14), which accommodates the propellant charge (9), and a second chamber section (15).

IPC 8 full level
F42B 5/02 (2006.01); **F42B 12/36** (2006.01); **F42C 19/08** (2006.01)

CPC (source: EP)
F42B 5/02 (2013.01); **F42C 19/083** (2013.01); **F42B 12/36** (2013.01)

Citation (examination)
DE 19738937 A1 19990318 - NICO PYROTECHNIK [DE]

Citation (opposition)
Opponent : Rheinmetall Waffe Munition GmbH
• WO 2008099353 A1 20080821 - RIPPEL EFFECT WEAPON SYSTEMS P [ZA], et al
• WO 2013010675 A1 20130124 - DIEHL BGT DEFENCE GMBH & CO KG [DE], et al
• DE 3918005 A1 19900405 - RHEINMETALL GMBH [DE]
• DE 10303106 A1 20030814 - RUAG MUNITION THUN [CH]
• DE 19527621 A1 19970130 - NICO PYROTECHNIK [DE]
• DE 19738937 A1 19990318 - NICO PYROTECHNIK [DE]
• DE 2262981 A1 19730705 - AAI CORP
• DE 3507643 A1 19860911 - NICO PYROTECHNIK [DE]
• EP 0204107 A1 19861210 - RHEINMETALL GMBH [DE]
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• US 3309994 A 19670321 - LAGE FREDERICK A
• US 3788224 A 19740129 - MERRITT E
• US 7690310 B2 20100406 - ENGEL JOHN WHITWORTH [US], et al
• US 6041712 A 20000328 - LYON DAVID H [US]
• US 7021219 B1 20060404 - DINDL FRANK J [US]
• US 3516357 A 19700623 - HENDRICKS GROVER E
• DE 102009048365 B3 20101007 - RHEINMETALL WAFFE MUNITION [DE]
• RU 2133438 C1 19990720 - TSENTRAL NYJ NI SKIJ I TO, et al
• RU 2453797 C1 20120620 - FIL KOVSKIJ MIKHAIL IOSIFOVICH [RU]

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SG 11201407436Q A 20150330; WO 2014012616 A1 20140123

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