

Title (en)
Hollow charge

Title (de)
Hohlladung

Title (fr)
Charge creuse

Publication
EP 0940647 A3 20001129 (DE)

Application
EP 99104251 A 19990303

Priority
DE 19809179 A 19980304

Abstract (en)
[origin: EP0940647A2] A hollow charge has a fluid material-filled cavity which is of gutter shape for forming a flat hollow charge spike on initiation.

IPC 1-7
F42B 3/08

IPC 8 full level
F42B 3/08 (2006.01)

CPC (source: EP)
F42B 3/08 (2013.01)

Citation (search report)

- [X] US 5170004 A 19921208 - GARRISON CHARLES G [US]
- [X] FR 2733712 A1 19961108 - FRANCE ETAT [FR]
- [X] GB 2304177 A 19970312 - SIDNEY CHRISTOPHER ALFORD [GB]
- [X] DE 19520136 A1 19961205 - DIEHL GMBH & CO [DE]
- [A] EP 0581668 A1 19940202 - FRANCE ETAT [FR]
- [DA] EP 0559960 A1 19930915 - DEUTSCHE AEROSPACE [DE]
- [A] US 4109576 A 19780829 - ECKELS ROBERT E

Cited by
US11204227B2

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)
EP 0940647 A2 19990908; EP 0940647 A3 20001129; EP 0940647 B1 20040512; DE 19809179 C1 20000518; DE 59909437 D1 20040617;
ES 2218890 T3 20041116

DOCDB simple family (application)
EP 99104251 A 19990303; DE 19809179 A 19980304; DE 59909437 T 19990303; ES 99104251 T 19990303