Title (en)

PROJECTILE OR WARHEAD

Title (de)

GESCHOSS ODER GEFECHTSKOPF

Title (fr)

PROJECTILE OU OGIVE

Publication

EP 1000311 B1 20060719 (DE)

Application

EP 97948667 A 19971222

Priority

- CH 9700477 W 19971222
- DE 19700349 A 19970108

Abstract (en)

[origin: US6789484B2] Projectiles or war-heads with an inner arrangement for the formation of bulging zones (4,4a) are proposed, comprised of an enclosed bulging medium (1) which is terminal-ballistically substantially ineffective and is radially enclosed by a penetration material (2) which is terminal-ballistically effective, with the bulging medium (1) having a lower density as compared with the enclosing penetration material (2). This leads to the effect that on impact or on penetrating a target plate (3) the bulging medium (1) remains behind relative to the encompassing terminal-ballistic effective body (2) and is laterally increasingly bulged by the bulging material (1) which continues to flow in from behind. As a result of the high pressures, a conical (crowned) pressure and bulging zone (4,4a) is formed dynamically, which zone radially widens or fragments the passing ambient effective material (5,5a).

IPC 8 full level

F42B 12/06 (2006.01); **F42B 12/34** (2006.01); **F42B 12/36** (2006.01)

CPC (source: EP US)

F42B 12/06 (2013.01 - EP US); **F42B 12/204** (2013.01 - EP US); **F42B 12/34** (2013.01 - EP US); **F42B 12/367** (2013.01 - EP US)

Cited by

DE102015117018A1; EP2006632A1; FR2917492A1; FR2912211A1; EP1970665A3; EP1970665A2; WO2017060118A1; US11320246B2; WO2019162451A1; US11307006B2; FR2915563A1; EP1988355A1

Designated contracting state (EPC)

AT BE CH DK ES FI FR GB GR IT LI NL PT SE

DOCDB simple family (publication)

WO 9830863 A1 19980716; AT E333632 T1 20060815; AU 7995198 A 19980803; CA 2277205 A1 19980716; CA 2277205 C 20050628; CN 1087421 C 20020710; CN 1265189 A 20000830; DE 19700349 C1 19980820; DE 19700349 C2 20020207; DK 1000311 T3 20061113; EA 001318 B1 20010226; EA 199900625 A1 20000228; EP 1000311 A1 20000517; EP 1000311 B1 20060719; ES 2273375 T3 20070501; HK 1030449 A1 20010504; IL 130764 A0 20010128; IL 130764 A 20020912; NO 317805 B1 20041213; NO 993299 D0 19990702; NO 993299 L 19990702; PT 1000311 E 20061229; TR 199902111 T2 19991221; TW 396269 B 20000701; US 2004129163 A1 20040708; US 2004129164 A1 20040708; US 2004129166 A1 20040708; US 6659013 B1 20031209; US 6772695 B2 20040810; US 6772696 B2 20040810; US 6789484 B2 20040914; ZA 9711550 B 19980625

DOCDB simple family (application)

CH 9700477 W 19971222; AT 97948667 T 19971222; AU 7995198 A 19971222; CA 2277205 A 19971222; CN 97182003 A 19971222; DE 19700349 A 19970108; DK 97948667 T 19971222; EA 199900625 A 19971222; EP 97948667 A 19971222; ES 97948667 T 19971222; HK 01101358 A 20010223; IL 13076497 A 19971222; NO 993299 A 19990702; PT 97948667 T 19971222; TR 9902111 T 19971222; TW 87100142 A 19980107; US 63397303 A 20030804; US 63397403 A 20030804; US 63397503 A 20030804; US 8709098 A 19980529; ZA 9711550 A 19971223