

Title (en)

Igniter having a heat insulating envelope.

Title (de)

Zünder im Isolierbehälter.

Title (fr)

Allumeur comportant une enveloppe isolante contre la chaleur.

Publication

**EP 0679858 A3 19970115 (DE)**

Application

**EP 95106038 A 19950422**

Priority

DE 4414411 A 19940426

Abstract (en)

[origin: EP0679858A2] The electronic detonator (1) is contained within a thermally insulated holder (2) as a Dewar flask. <IMAGE>

IPC 1-7

**F42B 3/10**

IPC 8 full level

**F42B 3/11** (2006.01)

CPC (source: EP US)

**F42B 3/11** (2013.01 - EP US)

Citation (search report)

- [YD] DE 3533389 A1 19860605 - DYNAMIT NOBEL AG [DE]
- [Y] US 3859523 A 19750107 - WILSON BILLY F, et al
- [A] US 4440219 A 19840403 - ENGELDER PAUL D [US]
- [A] US 4722026 A 19880126 - BENNETT GLORIA A [US], et al
- [A] DE 1006315 B 19570411 - KRISTOFFER HJELLNES

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WO03014652A1

Designated contracting state (EPC)

DE DK ES FR GB IT SE

DOCDB simple family (publication)

**EP 0679858 A2 19951102; EP 0679858 A3 19970115;** BR 9501769 A 19951121; CA 2147804 A1 19951027; DE 4414411 A1 19951102; NO 951565 D0 19950425; NO 951565 L 19951027; US 5589657 A 19961231

DOCDB simple family (application)

**EP 95106038 A 19950422;** BR 9501769 A 19950425; CA 2147804 A 19950425; DE 4414411 A 19940426; NO 951565 A 19950425; US 42953095 A 19950426