

Title (en)  
PROXIMITY FUSE WITH PASSIVE UNIT

Title (de)  
ANNÄHERUNGSZÜNDER MIT PASSIVER EINHEIT

Title (fr)  
FUSEE DE PROXIMITE A UNITE PASSIVE

Publication  
**EP 0809784 B1 20010425 (EN)**

Application  
**EP 95941288 A 19951204**

Priority  
• SE 9501454 W 19951204  
• SE 9404216 A 19941206

Abstract (en)  
[origin: WO9618079A1] A proximity fuse for initiating detonation of the effective part of a robot, comprising a passive unit is described. It includes a first antenna means (1) for receiving electromagnetic radiation within the microwave range, having a relatively narrow first antenna lobe, and a second antenna means (2) for receiving electromagnetic radiation within the microwave range, having a second, relatively broad antenna lobe, that encloses the first antenna lobe, the first and second antenna lobes preferably being rotationally symmetric in the roll direction of the robot. The proximity fuse comprises electronic components and circuits (3-8, 10, 11) for detecting a first signal S1 from the first antenna lobe and a second signal S2 from the second antenna lobe and a first means (9) for issuing a third signal S3 for initiating a detonation of said effective part. It is in particular characterized in that the proximity fuse is arranged to issue the third signal S3 in the case where the following conditions are simultaneously satisfied: a) the quotient  $Z$  of the amplitude  $A1$  of the signal S1 and the amplitude  $A2$  of the signal S2 exceeds a first value  $Z1$  determined in advance, i.e. that  $Z = A1/A2 > Z1$ , and b) the time derivative  $dZ/dt$  exceeds a second value  $Z2$  determined in advance, i.e.  $dZ/dt > Z2$ .

IPC 1-7  
**F42C 13/00**

IPC 8 full level  
**F42C 13/04** (2006.01)

CPC (source: EP)  
**F42C 13/04** (2013.01)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 9618079 A1 19960613**; DE 69520800 D1 20010531; DE 69520800 T2 20010823; EP 0809784 A1 19971203; EP 0809784 B1 20010425; NO 313649 B1 20021104; NO 972561 D0 19970605; NO 972561 L 19970714; SE 506114 C2 19971110; SE 9404216 L 19960607

DOCDB simple family (application)  
**SE 9501454 W 19951204**; DE 69520800 T 19951204; EP 95941288 A 19951204; NO 972561 A 19970605; SE 9404216 A 19941206