

Title (en)

Phased perforating guns

Title (de)

Perforationskanone mit gerichteten Ladungen

Title (fr)

Canon de perforation avec des charges orientées

Publication

EP 0874130 A3 19990825 (EN)

Application

EP 98400998 A 19980424

Priority

US 84607997 A 19970425

Abstract (en)

[origin: EP0874130A2] A perforating gun having a base structure (108) made of a deformable material. The base structure includes support rings (114) integrally attached to one another by connector portions. The capsule charges (110) are mounted in corresponding support rings, and each support ring is adjustable by selective deformation of the base structure to face in one of a plurality of directions to provide a plurality of combinations of phasing patterns. <IMAGE>

IPC 1-7

E21B 43/117; E21B 43/119

IPC 8 full level

E21B 43/117 (2006.01)

CPC (source: EP)

E21B 43/117 (2013.01)

Citation (search report)

- [XY] US 4694754 A 19870922 - DINES JACK E [US], et al
- [Y] US 2927534 A 19600308 - LE BUS JAKE H
- [X] US 2750884 A 19560619 - TOM GAINES

Cited by

CN110359887A; US7942098B2; US11091987B1; US11655693B2; US8118094B2

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 0874130 A2 19981028; **EP 0874130 A3 19990825**; **EP 0874130 B1 20060118**; AR 015374 A1 20010502; AU 6192998 A 19981029; AU 743159 B2 20020117; BR 9801444 A 19991013; ID 20224 A 19981029; SG 83102 A1 20010918

DOCDB simple family (application)

EP 98400998 A 19980424; AR P980101910 A 19980424; AU 6192998 A 19980416; BR 9801444 A 19980424; ID 980616 A 19980424; SG 1998000891 A 19980418