

Title (en)
CARTRIDGE FOR EXPELLING LIQUIDS BY MEANS OF PRESSURE

Publication
EP 0303198 B1 19911023 (DE)

Application
EP 88112780 A 19880805

Priority
DE 3726490 A 19870808

Abstract (en)
[origin: EP0303198A1] The present invention discloses a cartridge (1) for expelling liquids under high pressure. To this end, the cartridge (1) has as essential constructional element a sabot (4) which is arranged axially between a propellant-charge chamber (2) and a liquid chamber (3). Attached by positive or non-positive connection to the plane end face (7) of the sabot (4) is a closing element (21) which is separated axially from the sabot (4) by means of the pressure of the liquid flowing into the liquid chamber (3) and which is displaced forwards towards the barrel muzzle. Both the sabot (4) and the closing element (21) lie sealingly against the inner walls of the barrel (15) and the cartridge case (13) respectively. When the propellant charge (27) is ignited, the sabot (4) drives a water column, together with the closing element (21), into drill holes of a roadway core of a roadway drive and thereby causes the rock of the roadway core to be comminuted. <IMAGE>

IPC 1-7
E21C 37/12; F42B 3/02; F42D 3/04

IPC 8 full level
F42B 3/04 (2006.01); **E21C 37/12** (2006.01); **F41B 9/00** (2006.01); **F42B 3/02** (2006.01); **F42B 5/145** (2006.01); **F42D 3/04** (2006.01); **F42D 99/00** (2009.01)

CPC (source: EP US)
E21C 37/12 (2013.01 - EP US); **F41B 9/0043** (2013.01 - EP US); **F42B 5/145** (2013.01 - EP US)

Cited by
FR2661492A1; US10488147B2

Designated contracting state (EPC)
AT CH DE GB IT LI SE

DOCDB simple family (publication)
EP 0303198 A1 19890215; EP 0303198 B1 19911023; AT E68875 T1 19911115; CA 1306243 C 19920811; DE 3726490 A1 19890216; DE 3726490 C2 19890511; DE 3865772 D1 19911128; JP S6449897 A 19890227; NO 165163 B 19900924; NO 165163 C 19910109; NO 883464 D0 19880804; NO 883464 L 19890209; US 4909152 A 19900320

DOCDB simple family (application)
EP 88112780 A 19880805; AT 88112780 T 19880805; CA 573942 A 19880805; DE 3726490 A 19870808; DE 3865772 T 19880805; JP 17891088 A 19880718; NO 883464 A 19880804; US 22623988 A 19880729