

Title (en)
PERCUSSION DRILL

Publication
EP 0385959 A3 19910703 (EN)

Application
EP 90850080 A 19900227

Priority
US 31786689 A 19890302

Abstract (en)
[origin: EP0385959A2] A percussion drill includes a control arbor (18) in which a hammer piston (70) is longitudinally reciprocably disposed. Front (34) and rear (36) casing sections are threadedly coupled to the control arbor (18) in a manner preventing longitudinal movement of the arbor relative to the casing sections. A drill bit (50) is secured to the front casing section (34), and is repeatedly struck by the piston (70) to effect a percussion drilling operation. A rear sub (46) is secured to the rear casing section (36), and a front end (64) of the rear sub projects telescopingly into a rear end (63) of the control arbor to radially support the latter.

IPC 1-7
E21B 4/14

IPC 8 full level
E21B 6/02 (2006.01); **E21B 4/14** (2006.01)

CPC (source: EP)
E21B 4/14 (2013.01)

Citation (search report)
• [A] US 4705119 A 19871110 - KOSTYLEV ALEXANDR D [SU], et al
• [A] US 4194581 A 19800325 - WALTER HANS P [DE]
• [A] US 3424065 A 19690128 - KURT EWALD H, et al

Cited by
CN107489375A

Designated contracting state (EPC)
DE FR GB SE

DOCDB simple family (publication)
EP 0385959 A2 19900905; EP 0385959 A3 19910703; AU 4992890 A 19900906; BR 9000985 A 19910219; CA 2011265 A1 19900902; JP H0343590 A 19910225

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EP 90850080 A 19900227; AU 4992890 A 19900220; BR 9000985 A 19900302; CA 2011265 A 19900301; JP 4968090 A 19900302