

Title (en)
BORING RAM

Publication
EP 0353400 A3 19910206 (DE)

Application
EP 89107906 A 19890502

Priority
DE 3825800 A 19880729

Abstract (en)
[origin: EP0353400A2] In a boring ram (1) having a percussion piston (3) displaceable in a tubular housing (2), and a displaceably mounted bit (10) which is passed through a housing tip (6), is guided with a collar (14) in a housing bore (13) having a front and a rear stop (20, 15) limiting the stroke (19) of the bit (10), and is provided with a stem (16) projecting into the working space (17) of the percussion piston (3), rebounding blows are avoided when the projecting length (18) of the stem (16) is less than the maximum stroke (19) of the collar (14) between the stops (15, 20).
<IMAGE>

IPC 1-7
E21B 4/14; **E21B 7/26**

IPC 8 full level
E21B 7/26 (2006.01); **E21B 4/14** (2006.01)

CPC (source: EP US)
E21B 4/145 (2013.01 - EP US); **Y10T 279/17042** (2015.01 - EP US)

Citation (search report)
• [X] FR 2223143 A1 19741025 - FAVRE JACQUES [FR]
• [X] US 2181381 A 19391128 - ROBERTS JOHN J
• [X] US 1525471 A 19250210 - STEVENS EDWARD W
• [X] US 1481641 A 19240122 - JIMERSON FRANCIS A
• [X] US 2889811 A 19590609 - EMILE GUILLEMIER PIERRE LEON
• [XP] EP 0283734 A2 19880928 - ROMER HELMUTH
• [A] DE 3124524 A1 19830113 - JENNE GUSTAV
• [AD] DE 2157259 B1 19721109 - TRACTO TECHNIK [DE]
• [A] DE 2537176 B1 19761209 - JENNE & STRAHM AG [CH]

Designated contracting state (EPC)
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