

Title (en)
Roller cutter with improved sealing

Title (de)
Rollenschneider mit verbesserter Dichtung

Title (fr)
Trépan à molettes avec étanchéité améliorée

Publication
EP 2781684 A1 20140924 (EN)

Application
EP 13160149 A 20130320

Priority
EP 13160149 A 20130320

Abstract (en)
A roller cutter (14) intended to be used at a drill head for rotary boring of the front of earth and rock formations, said roller cutter having a centre line (CL) and being provided with a hub (24) provided with rows of crushing members (29), at least one crushing member having its longitudinal axis at an angle relative to a normal to the centre line (CL), said hub being rotatable in relation to a shaft (33) having shaft spigots (34, 35), the roller cutter being provided with at least one seal retainer (38) arranged at an axial end of the hub in order to hold sealing means (37) in position, wherein the hub comprises at least one circumferential recess (44) positioned axially inward relative to a radially inward projecting flange (43) in the hub.

IPC 8 full level
E21B 10/25 (2006.01)

CPC (source: EP US)
E21B 10/10 (2013.01 - EP US); **E21B 10/25** (2013.01 - EP US)

Citation (applicant)
• US 5984024 A 19991116 - STRAND GOERAN [SE]
• US 7278500 B2 20071009 - BROLUND STIG-AAKE [SE]

Citation (search report)
• [X] US 3449024 A 19690610 - LICHTER CARL L
• [XA] US 3572452 A 19710330 - WINBERG DOUGLES F
• [AD] US 5984024 A 19991116 - STRAND GOERAN [SE]

Cited by
EP3868997A1; WO2021165323A1; US12024951B2

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