

Title (en)

Rotational drill bits and drilling apparatuses including the same

Title (de)

Rotierende Bohrmeissel und damit versehene Bohrvorrichtungen

Title (fr)

Tréfans rotatifs et appareils de forage les comprenant

Publication

EP 2733305 A3 20151209 (EN)

Application

EP 13193101 A 20131115

Priority

US 201213678105 A 20121115

Abstract (en)

[origin: EP2733305A2] A roof-bolt drill bit. The roof-bolt drill bit may include a bit body rotatable about a central axis and a cutting element coupled to the bit body. The bit body may comprise a forward end, a rearward end axially spaced away from the forward end, and an internal passage defined within the bit body, with the internal passage extending from a rearward opening defined in the rearward end of the bit body through at least a portion of the bit body. A fluid port is configured to direct fluid from the internal passage through a port opening in a direction that forms an angle with respect to a forward direction of the central axis.

IPC 8 full level

E21D 20/00 (2006.01); **E21B 10/43** (2006.01); **E21B 10/55** (2006.01); **E21B 10/60** (2006.01)

CPC (source: EP)

E21B 10/55 (2013.01); **E21B 10/602** (2013.01); **E21D 20/00** (2013.01)

Citation (search report)

- [X] US 2011297451 A1 20111208 - COX E SEAN [US], et al
- [X] US 5429199 A 19950704 - SHEIRER DANIEL C [US], et al

Cited by

CN106194035A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2733305 A2 20140521; **EP 2733305 A3 20151209**; **EP 2733305 B1 20170816**; AU 2013257466 A1 20140529; AU 2013257466 B2 20180215; ZA 201308590 B 20210526

DOCDB simple family (application)

EP 13193101 A 20131115; AU 2013257466 A 20131114; ZA 201308590 A 20131114