

Title (en)
GOUGING CUTTER STRUCTURE AND DRILL BIT MADE THEREWITH

Title (de)
MEISSELNDE SCHNEIDERSTRUKTUR UND DAMIT HERGESTELLTER BOHRMEISSEL

Title (fr)
STRUCTURE D'OUTIL DE COUPE DE GOUGEAGE ET FORET FABRIQUÉ AVEC CELLE-CI

Publication
EP 3000959 A1 20160330 (EN)

Application
EP 15186359 A 20150923

Priority
US 201414494056 A 20140923

Abstract (en)
A gouging cutter (18) includes a cutting element (18B) having a cutting end (118) and a mounting feature displaced from the cutting end (118) and a cutter body affixable to a drill bit body (11). The cutter body has a corresponding mounting feature arranged to cooperate with the mounting feature on the cutting element (118) to retain the cutting element (118) to the cutter body so as to enable rotation of the cutting element (118) therein. A drill bit may include a bit body (11) having features to enable connection to a drill string and at least one of the foregoing gouging cutters (18) mounted to the bit body (11).

IPC 8 full level
E21B 10/20 (2006.01); **E21B 10/22** (2006.01); **E21B 10/62** (2006.01); **E21B 10/633** (2006.01)

CPC (source: EP US)
E21B 10/20 (2013.01 - EP US); **E21B 10/22** (2013.01 - EP US); **E21B 10/55** (2013.01 - US); **E21B 10/573** (2013.01 - US);
E21B 10/62 (2013.01 - EP US); **E21B 10/633** (2013.01 - EP US)

Citation (applicant)
US 8505634 B2 20130813 - LYONS NICHOLAS J [US], et al

Citation (search report)
• [XAYI] US 2014131118 A1 20140515 - CHEN CHEN [US], et al
• [XY] US 5352045 A 19941004 - BENNETT RONALD [US], et al
• [YD] US 8505634 B2 20130813 - LYONS NICHOLAS J [US], et al
• [X] US 4553615 A 19851119 - GRAINGER ALFRED J [GB]

Cited by
EP3282084A1; EP3658739A4; US11505998B2; WO2018029130A1; WO2021258164A1; WO2022081246A1; WO2022225953A1

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