

Title (en)

DRILL BIT BEARING CONTACT PRESSURE REDUCTION

Title (de)

BOHRMEISSEL-LAGERKONTAKT-DRUCKREDUZIERUNG

Title (fr)

RÉDUCTION DE PRESSION DE CONTACT ENTRE PALIERS DE TRÉPAN

Publication

EP 2524103 A2 20121121 (EN)

Application

EP 11733546 A 20110218

Priority

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- US 2011025427 W 20110218

Abstract (en)

[origin: US2011168450A1] A method of reducing contact pressure between bearing surfaces of a drill bit can include constructing a structure which supports one bearing surface in contact with the other bearing surface, and reducing contact pressure between the bearing surfaces by relieving strain energy in the structure. A drill bit can include one bearing surface which contacts another bearing surface. There is a transition between contact and lack of contact between the bearing surfaces. A structure supporting one of the bearing surfaces has a reduced stiffness, whereby a contact pressure between the bearing surfaces is reduced at the transition.

IPC 8 full level

E21B 10/22 (2006.01); **F16C 33/76** (2006.01)

CPC (source: EP US)

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Citation (search report)

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