

Title (en)
GRINDING CYLINDRICAL BORES

Title (de)
SCHLEIFEN ZYLINDRISCHER BOHRUNGEN

Title (fr)
MEULAGE D'ALÉSAGES CYLINDRIQUES

Publication
EP 3659746 A1 20200603 (EN)

Application
EP 19205047 A 20191024

Priority
GB 201818823 A 20181119

Abstract (en)
Method of reducing the thickness of a bore of a cylindrical workpiece for use as a gear, with the method comprising the steps of: mounting a cylindrical workpiece having a horizontal central axis and an outer diameter in a grinding machine; and grinding the bore of the cylindrical workpiece to reduce its thickness using a grinding wheel that has a diameter that is from 40% to 80% of the outer diameter of the cylindrical bore and has a direction of rotation about an axis of rotation that is parallel to the horizontal central axis of the cylindrical workpiece. The axis of rotation of the grinding wheel may be located from 90 degrees to 180 degrees, in the direction of rotation of the grinding wheel, from a plane that extends vertically through the workpiece when it is mounted in the grinding machine. The gear may be one of a planetary, sun, parallel axis or helical gear.

IPC 8 full level
B24B 5/10 (2006.01); **B24B 5/12** (2006.01); **B24B 25/00** (2006.01); **B24B 55/02** (2006.01)

CPC (source: EP US)
B24B 5/01 (2013.01 - US); **B24B 5/06** (2013.01 - EP); **B24B 5/14** (2013.01 - US)

Citation (search report)

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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

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EP 19205047 A 20191024; GB 201818823 A 20181119; US 201916663393 A 20191025