

Title (en)

Method and device for producing gear plates for a continuously variable gearbox

Title (de)

Verfahren und Vorrichtung zur Herstellung von Getriebescheiben eines stufenlos verstellbaren Getriebes

Title (fr)

Procède et dispositif de production de poulies de transmission pour transmission variable en continu

Publication

EP 1372906 A2 20040102 (DE)

Application

EP 02737913 A 20020403

Priority

- DE 10116807 A 20010404
- EP 0203654 W 20020403

Abstract (en)

[origin: WO02081147A2] The invention relates to a method for producing gear plates for a continuously variable gearbox wherein at least two gear plates with the transmission surfaces thereof are arranged in an opposite manner. When the gearbox is in operation, said transmission surfaces come into contact in a non-positive mode with a power transmission element, on a device comprising at least one workpiece spindle and a grinding disc which is driven by a grinding spindle in order to grind the transmission surface of at least one gear plate. During the grinding of the transmission surface, a repeated relative oscillating movement is carried out radially in relation to the workpiece spindle, between the grinding disc and the gear plate, in such a way that the grinding region of the grinding disc is moved back and forth between an inner radius and an outer radius of the transmission surface. The gear plate is rotated by means of the workpiece spindle in such a way that the entire transmission surface is ground.
[origin: WO02081147A2] The invention relates to a method for producing gear plates (1) for a continuously variable gearbox wherein at least two gear plates (1) with the transmission surfaces (2) thereof are arranged in an opposite manner. When the gearbox is in operation, said transmission surfaces come into contact in a non-positive mode with a power transmission element, on a device comprising at least one workpiece spindle (3) and a grinding disc (4) which is driven by a grinding spindle (5) in order to grind the transmission surface (2) of at least one gear plate (1). During the grinding of the transmission surface (2), a repeated relative oscillating movement is carried out radially in relation to the workpiece spindle (3), between the grinding disc (4) and the gear plate (1), in such a way that the grinding region of the grinding disc (4) is moved back and forth between an inner radius (2.1) and an outer radius (2.2) of the transmission surface (2). The gear plate (1) is rotated by means of the workpiece spindle (3) in such a way that the entire transmission surface (2) is ground.

IPC 1-7

B24B 5/14; B24B 5/16

IPC 8 full level

B24B 5/14 (2006.01); **B24B 5/16** (2006.01); **B24B 19/00** (2006.01); **B24B 35/00** (2006.01); **F16H 55/52** (2006.01)

CPC (source: EP KR US)

B24B 5/14 (2013.01 - EP KR US); **B24B 5/162** (2013.01 - EP US); **B24B 35/00** (2013.01 - EP US)

Citation (search report)

See references of WO 02081147A2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 02081147 A2 20021017; WO 02081147 A3 20030501; WO 02081147 B1 20031127; AU 2002312789 A1 20021021; BR 0208687 A 20040803; BR 0208687 B1 20110726; CN 100400231 C 20080709; CN 1500027 A 20040526; CZ 20032700 A3 20040317; CZ 298796 B6 20080130; DE 10116807 A1 20021017; DE 10116807 B4 20070111; DE 50207564 D1 20060831; EP 1372906 A2 20040102; EP 1372906 B1 20060719; ES 2269710 T3 20070401; JP 2004532134 A 20041021; JP 3949583 B2 20070725; KR 100816576 B1 20080324; KR 20030093273 A 20031206; RU 2003132074 A 20050420; RU 2284891 C2 20061010; US 2005170753 A1 20050804

DOCDB simple family (application)

EP 0203654 W 20020403; AU 2002312789 A 20020403; BR 0208687 A 20020403; CN 02807238 A 20020403; CZ 20032700 A 20020403; DE 10116807 A 20010404; DE 50207564 T 20020403; EP 02737913 A 20020403; ES 02737913 T 20020403; JP 2002579170 A 20020403; KR 20037012381 A 20030923; RU 2003132074 A 20020403; US 47423303 A 20031009