Title (en)

MACHINE TOOL HAVING A SPINDLE DRIVEN BY A DRIVE APPARATUS

Title (de)

WERKZEUGGERÄT MIT EINER DURCH EINE ANTRIEBSVORRICHTUNG ANGETRIEBENEN SPINDEL

Title (fr)

MACHINE-OUTIL MUNIE D'UNE BROCHE ENTRAÎNÉE PAR UN DISPOSITIF D'ENTRAÎNEMENT

Publication

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Application

EP 09764771 A 20091125

Priority

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Abstract (en)

[origin: WO2010079002A1] The invention is based on a machine tool (10) having a spindle (16) which is driven by a drive apparatus (12) and which, at the free end thereof, has a receiving device (22, 26) for a tool or a tool holder. In the drive train of the drive apparatus (12) a drive part (28) is provided, which, by way of drivers (50), transmits a torque having a defined play in the direction of rotation of a driven part (40) rotationally fixedly joined to the spindle (16), while a torque acting from the spindle (16) in the direction of the drive apparatus (12) and exceeding a torque on the drive side is supported by clamping surfaces (46) on the periphery of the driven part (40), by clamping elements (48) and by a locking ring (32) having a hollow cylindrical surface (38) on the casing of the machine tool (10). It is proposed that the driven part be a driver profile (40) having two or more axially parallel planes, of which a first part acts as clamping surfaces (46) and a second part acts as driver surfaces (44), which co-operate with the drivers (50) of the drive part (28).

IPC 8 full level

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CPC (source: EP US)

B25B 21/00 (2013.01 - EP US); **B25F 5/001** (2013.01 - EP US)

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DOCDB simple family (publication)

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