

Title (en)

RELEASE UNIT FOR A MACHINE TOOL SPINDLE

Title (de)

LÖSEEINHEIT FÜR EINE WERKZEUGMASCHINENSPINDEL

Title (fr)

UNITÉ DE LIBÉRATION POUR UNE BROCHE DE MACHINE-OUTIL

Publication

EP 3475028 A1 20190501 (DE)

Application

EP 17748753 A 20170803

Priority

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- EP 2017069712 W 20170803

Abstract (en)

[origin: WO2018046202A1] The invention relates to a release unit (1) for a machine tool spindle, in particular a motor spindle, for releasing a tool clamp, wherein the release unit (1) comprises at least one adjustment element (16) that can be adjusted in a linear manner along an adjustment path (H) for actuating the tool clamp, which reduces the construction and/or operational output. According to the invention, this is achieved in that the release unit (1) is designed as an electric motor (2) having an electromagnetic drive system (8, 10) and having a hollow-cylindrical rotor shaft (9) rotating about an axis of rotation (14), in that the linearly adjustable adjustment element (16) is designed as a spindle element (16) of a conversion unit (13) for converting the rotation of the electric motor (2) into a linear movement (H), and in that the rotor shaft (9) is designed as a spindle nut (9) of the conversion unit (13) rotating about the axis of rotation (14).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018046202A1

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