

Title (en)
HAND-HELD POWER TOOL

Title (de)
HAND-WERKZEUGMASCHINE

Title (fr)
MACHINE-OUTIL À MAIN

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Application
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Abstract (en)
[origin: WO2017097701A1] The invention relates to a hand-held power tool, in particular a grinding machine (10), comprising an eccentric gear (40) arranged in a machine housing (11) and an electric or pneumatic drive motor (30) for rotationally driving a drive shaft (35) of the eccentric gear (40) about a drive axis (A), wherein the eccentric gear (40) has a tool shaft (50), which is eccentrically rotatably mounted on the drive shaft (35) with the aid of at least one tool shaft bearing (42, 44) in order to perform eccentric movements, and a tool holder (51) for a disc-type tool (14), wherein a forced rotation guide (54) is provided, which, in a forced rotation eccentric mode, forces the tool shaft (50) to rotate with respect to the machine housing (11) by the rolling action of a rolling body (55) of the forced rotation guide (54) on another rolling body (57) of the forced rotation guide (54), wherein one rolling body (57) is supported on the machine housing (11) and the other rolling body (55) is supported on the tool shaft (50). A freewheel device (62) is provided between at least one of the rolling bodies (57) and the tool shaft (50) or the machine housing (11), which freewheel device couples the at least one rolling body (57) to the machine housing (11) or the tool shaft (50) in a rotationally fixed manner in a first direction of rotation of the tool shaft (50) corresponding to a blocking direction of the freewheel device (62), so that the one rolling body (55) supported on the tool shaft (50) can roll on the other rolling body (57) supported on the machine housing (11), and in a second direction of rotation of the tool shaft (50) corresponding to a freewheel direction of the freewheel device (62), said freewheel device rotationally releases said rolling body so that the tool shaft (50) can rotate without relative rotation of the rolling bodies (55, 57) on one another with respect to the machine housing (11).

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