

Title (en)
TOOL SYSTEM FOR A GROUND MILLING MACHINE AND GROUND MILLING MACHINE COMPRISING A TOOL SYSTEM OF THIS TYPE

Title (de)
WERKZEUGEINRICHTUNG FÜR EINE BODENFRÄSMASCHINE UND BODENFRÄSMASCHI MIT EINER SOLCHEN WERKZEUGEINRICHTUNG

Title (fr)
OUTILLAGE D'UNE FRAISEUSE DE SOL ET FRAISEUSE DE SOL ÉQUIPÉE D'UN TEL OUTILLAGE

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Application
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Abstract (en)
[origin: WO2016071001A1] The invention relates to a tool system (11) for a ground milling machine (1), in particular a road miller, a road recycler, a road stabilizer or a surface miner. The tool system (11) comprises: a milling bit (14) with a highly wear-resistant bit tip (17), in particular comprising PCD material, and a bit shaft (20) extending along a longitudinal axis (35); and a bit holder (29) with a shaft-receiving socket (26), the bit shaft (20) of the milling bit (14) having at least one tapered section (23) that narrows in a direction running away from the bit tip (17). A securing device (19) is also provided, said device being designed to draw the milling bit (14) along the longitudinal axis (35) of the latter away from the bit tip (17) into the shaft-receiving socket (26), the shaft-receiving socket (26) of the bit holder (29) being designed to be complementary to the bit shaft (20) of the milling bit (14) such that the tapered section (23), when interlocked with the securing device (19), lies in the shaft-receiving socket (26) against the bit holder (29) in a friction-locked manner. In addition, the bit holder (29) comprises a base holder (12) and an interchangeable holder (13), the base holder (12) comprising a holder-receiving socket (37) for receiving the interchangeable holder (13) and the interchangeable holder (13) comprising the shaft-receiving socket (26), and the securing device (19) being designed such that it draws the milling bit (14) along the longitudinal axis (35) of the latter in a direction away from the bit tip (17) into the shaft-receiving socket (26) and also draws the interchangeable holder (13) into the holder-receiving socket (37) in the base holder (12). The invention also relates to a milling bit and to an interchangeable holder for a tool system of this type and to a ground milling machine comprising a tool system of this type.

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Citation (examination)
• US 2012080930 A1 20120405 - LATHAM WINCHESTER E [US]
• US 2013207445 A1 20130815 - BELL ANDY [GB]
• US 2009200855 A1 20090813 - HALL DAVID R [US], et al

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