

Title (en)
RETAINING ELEMENT FOR A ROUND SHANK BIT ON A MILLING MACHINE

Title (de)
HALTEELEMENT FÜR EIN RUNDSCHAFTMEISSEL EINER FRÄSVORRICHTUNG

Title (fr)
ELEMENT DE RETENUE DE BURIN A TIGE CYLINDRIQUE POUR UNE FRAISEUSE

Publication
EP 1631733 B1 20071121 (DE)

Application
EP 04735723 A 20040602

Priority
• DE 2004001131 W 20040602
• DE 10325253 A 20030603

Abstract (en)
[origin: WO2004109059A1] A retaining element (10) for a round shank bit (1) on a milling machine, comprising a number of round shank bits (1), each with a bit head (3), a bit shank (4) and at least one retaining element (18) along a bit axis (2). The bit shanks may each be introduced along the bit axis (2) thereof into a drilling (12) in bit retainers (13), mounted on the milling device, such that the bit heads rest on the bit retainers (13) with a radially-projecting collar (5). The retaining elements (18) are arranged on an outer surface (17) of the bit shanks and the round-shank bits (1) may be retained in the drillings (12), by means of the retaining elements (18). A surface of a material may be milled in a milling direction, running parallel to said surface by means of the milling device, such that the bit heads engage in the material alongside and behind each other in the direction of milling. According to the invention, the play between the round shank bit (1) and bit retainer (13) and hence directly the wear on the bit retainer (13) may be minimised, whereby the retainer element (18) is made from an elastomeric material.

IPC 8 full level
E21C 35/197 (2006.01); **B28D 1/18** (2006.01); **E21C 35/18** (2006.01)

CPC (source: EP)
B28D 1/188 (2013.01); **E21C 35/197** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004109059 A1 20041216; DE 10325253 A1 20041223; DE 502004005566 D1 20080103; EP 1631733 A1 20060308;
EP 1631733 B1 20071121

DOCDB simple family (application)
DE 2004001131 W 20040602; DE 10325253 A 20030603; DE 502004005566 T 20040602; EP 04735723 A 20040602