

Title (en)

DRILL, METHOD FOR PRODUCING A DRILL, METHOD FOR MAKING A THROUGH-HOLE IN A WORKPIECE, AND USE OF A DRILL

Title (de)

BOHRER, VERFAHREN ZUR HERSTELLUNG EINES BOHRERS, VERFAHREN ZUM EINBRINGEN EINER DURCHGANGSBOHRUNG IN EIN WERKSTÜCK, UND VERWENDUNG EINES BOHRERS

Title (fr)

FORET, PROCÉDÉ DE FABRICATION D'UN FORET, PROCÉDÉ DE RÉALISATION D'UN ALÉSAGE TRAVERSANT DANS UNE PIÈCE, ET UTILISATION D'UN FORET

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Application

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Abstract (en)

[origin: WO2014191216A1] The invention relates to a drill (1) particularly for working lightweight metals and composite materials, having a central axis (M) and an end face (3). The drill (1) comprises a first section (5) which – seen along the central axis (M) from the end face (3) – is arranged before a second section (7). Said first section (5) comprises a first main cutting edge (9, 9') and a first external diameter (D1), said second section (7) comprising a second main cutting edge (11) and a second external diameter (D2). Said first external diameter (D1) is smaller than said second external diameter (D2). According to the invention, the first external diameter (D1) is at least $0.9 \cdot x$ to a maximum of $1.1 \cdot x$, where $x = D2 - \exp(D2/15) - 0.5$.

IPC 8 full level

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