

Title (en)
METHOD AND SYSTEM FOR FEEDING A COOLING FLUID DURING MACHINING OF A WORKPIECE BY MEANS OF A CUP GRINDING WHEEL, AND CUP GRINDING WHEEL USED THEREIN

Title (de)
VERFAHREN UND VORRICHTUNG FÜR DIE ZUFÜHRUNG VON KÜHLFLÜSSIGKEIT WÄHREND DER BEARBEITUNG EINES WERKSTÜCKS MIT EINER TOPFSCHLEIFSCHEIBE, SOWIE DIE DAFÜR VERWENDETE TOPFSCHLEIFSCHEIBE

Title (fr)
PROCÉDÉ ET SYSTÈME POUR DISTRIBUER UN LIQUIDE DE REFROIDISSEMENT PENDANT L'USINAGE D'UNE PIÈCE AVEC UNE MEULE BOISSEAU, AINSI QUE LA MEULE

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Application
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Priority
IT UA20164592 A 20160622

Abstract (en)
During machining of a workpiece (L) by means of a cup grinding wheel (8) controlled by a rotating spindle (3), coolant is fed into the area of contact between the annular front surface (91) of the cup grinding wheel (8) and the workpiece (L) being machined, by means of passages (81) formed in the body of the cup grinding wheel (8) and leading to said annular front surface (91). These passages (81) receive coolant fed by one or more coolant dispensers (10) arranged in fixed positions on the outside of the spindle (3) and configured to direct jets of coolant inside the cup grinding wheel body and through the aforesaid passageways leading to the annular front surface (91) of the cup grinding wheel (8). In the annular front surface (91) of the cup grinding wheel (8), at least one circumferential continuous groove (T) is formed that follows a wavy path, in order to cover a predominant portion of the radial extension of the aforesaid annular front surface (91) of the cup grinding wheel (8).

IPC 8 full level
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CPC (source: EP)
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