

Title (en)

MINIMAL COOLANT MICRO-FINISHING SYSTEM AND PROCESS

Title (de)

VERFAHREN UND SYSTEM ZUM MIKRO-FINISHING MIT MINIMALEM KÜHLMITTELVERBAUCH

Title (fr)

SYSTÈME ET PROCÉDÉ DE MICRO-FINITION DE RÉFRIGÉRANT MINIMALE

Publication

EP 3348353 A1 20180718 (EN)

Application

EP 17173420 A 20170530

Priority

IN 201721001284 A 20170112

Abstract (en)

The present disclosure relates generally to the field of surface finishing operations, more particularly to micro-finishing systems and processes. The micro-finishing system and process of the present disclosure is configured to perform surface finishing operation on a work-piece. The micro-finishing system comprises: (i) a micro-finishing film having a layer of abrasives which is configured to be rubbed against the work-piece, (ii) a contact tooling which is configured to provide support to the micro-finishing film, and (iii) ports which are configured within the contact tooling strategically to reduce heat and frictional losses generated due to rubbing of the layer of abrasives against the work-piece by a minimum flow of coolant at the desired location. The ports are typically drilled holes.

IPC 8 full level

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Citation (search report)

- [X] US 4682444 A 19870728 - JUDGE NORMAN R [US], et al
- [X] US 3099904 A 19630806 - BELL RAMSAY M
- [X] DE 1120925 B 19611228 - WERNER OSENBERG DR ING
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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EP 3348353 A1 20180718; CN 108296947 A 20180720; JP 2018111191 A 20180719; US 2018193979 A1 20180712; WO 2018130934 A1 20180719

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