

Title (en)

Device and acoustically monitored water jet method

Title (de)

Vorrichtung und akustisch überwachte Wasserstrahlverfahren

Title (fr)

Dispositif et procédé de jet d'eau à surveillance acoustique

Publication

EP 2740574 A1 20140611 (DE)

Application

EP 12195482 A 20121204

Priority

EP 12195482 A 20121204

Abstract (en)

The device has a holder or support for a component i.e. turbine blade, to be processed (4). A water jet nozzle is provided with a variable water jet (7) that flow in and flow out such that a sensor is able to receive acoustic signals of a contact point of water jet with the component to be processed. A control and/or regulating device is arranged for the water jet nozzle, where the control and/or regulating device is able to process the signals of the sensor. The water jet is provided with an ablating surface (14). An independent claim is also included for a water jet method.

Abstract (de)

Durch die akustische Überwachung beim Wasserstrahlen kann delektiert werden, wenn nur noch ein dünner Wandbereich (22) in der durchzubohrenden Wand (22) vorhanden ist, so dass die Parameter des Wasserstrahlverfahrens in gewünschter Weise angepasst werden können.

IPC 8 full level

B26F 1/26 (2006.01); **B24C 1/04** (2006.01)

CPC (source: EP)

B24C 1/045 (2013.01); **B26F 1/26** (2013.01); **B26D 5/00** (2013.01)

Citation (applicant)

- EP 1204776 B1 20040602 - SIEMENS AG [DE], et al
- EP 1306454 A1 20030502 - SIEMENS AG [DE]
- EP 1319729 A1 20030618 - SIEMENS AG [DE]
- WO 9967435 A1 19991229 - SIEMENS AG [DE], et al
- WO 0044949 A1 20000803 - SIEMENS AG [DE], et al
- US 6024792 A 20000215 - KURZ WILFRIED [CH], et al
- EP 0892090 A1 19990120 - SULZER INNOTEC AG [CH]
- EP 0486489 B1 19941102 - SIEMENS AG [DE]
- EP 0786017 B1 19990324 - SIEMENS AG [DE]
- EP 0412397 B1 19980325 - SIEMENS AG [DE]
- EP 1306454 A1 20030502 - SIEMENS AG [DE]

Citation (search report)

- [X1] US 6021682 A 20000208 - ZENG JIYUE [US]
- [X1] US 4955164 A 19900911 - HASHISH MOHAMED [US], et al
- [X1] EP 2301730 A1 20110330 - UNITED TECHNOLOGIES CORP [US]

Cited by

DE102017212324A1; WO2019015846A1

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)

BA ME

DOCDB simple family (publication)

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