

Title (en)

Plant for water jet surface treatment of stony material elements

Title (de)

Anlage zur Oberflächenbehandlung mit Wasserstrahl von Elementen aus steinigem Material

Title (fr)

Installation pour le traitement de surface au jet d'eau d'éléments en matériaux pierreux

Publication

EP 2695712 A1 20140212 (EN)

Application

EP 13003655 A 20130722

Priority

IT VI20120207 A 20120809

Abstract (en)

A plant for surface working of semi-finished products made of a stone material or the like, using abrasive-free liquid jets comprises a support base (2) for a workpiece (P), a head (3) facing the support base (2) and having a plurality of nozzles (4, 4', 4'', ...) for generating jets (J), feed means (5) for feeding the nozzles (4, 4', 4'', ...) with a high-pressure liquid to create cuts on the product (P) being worked, first drive means (6) for forwardly moving the product (P) relative to the head (3) in the longitudinal direction (X). The nozzles (4, 4', 4'',...) are mutually offset in a transverse direction (Y) with a predetermined pitch (p), adjustment means (7) being associated therewith for continuous adjustment of the projection of their pitch (p) on a substantially transverse vertical plane (Δ), during operation, to change the transverse distance (d) between the longitudinal cuts made by the jets (J).

IPC 8 full level

B28D 1/00 (2006.01); **B24C 1/04** (2006.01); **B24C 3/12** (2006.01)

CPC (source: EP)

B26F 3/004 (2013.01); **B28D 1/00** (2013.01)

Citation (applicant)

- US 5291694 A 19940308 - HOSOYA FUKUTOSHI [JP], et al
- EP 1045742 A1 20001025 - APUANIA CORSI S R L [IT]
- EP 1977867 A1 20081008 - MAEMA S R L [IT]
- EP 2105275 A2 20090930 - MAEMA S R L [IT]

Citation (search report)

- [AD] US 5291694 A 19940308 - HOSOYA FUKUTOSHI [JP], et al
- [AD] WO 9932262 A1 19990701 - APUANIA CORSI S R L [IT], et al
- [A] EP 1977867 A1 20081008 - MAEMA S R L [IT]
- [A] EP 2478968 A1 20120725 - MAEMA S R L [IT]

Cited by

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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)

BA ME

DOCDB simple family (publication)

EP 2695712 A1 20140212; **EP 2695712 B1 20161102**; DK 2695712 T3 20170213; ES 2612936 T3 20170519; IT VI20120207 A1 20140210; PL 2695712 T3 20170731; PT 2695712 T 20170213

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