

Title (en)

Device for the surface treatment of an object with solid particles.

Title (de)

Vorrichtung zum Bearbeiten der Oberfläche eines Gegenstandes mit festen Schleifeteilchen.

Title (fr)

Dispositif de traitement de la surface d'un objet avec des particules solides.

Publication

EP 0219403 A1 19870422 (FR)

Application

EP 86402095 A 19860924

Priority

FR 8514335 A 19850927

Abstract (en)

[origin: EP0219403B1] 1. A device for treating the surface of an article by contact with solid particles, comprising : - a vessel (1) having an axis of symmetry oblique in relation to the horizontal about which it can rotate, said vessel being capable of containing a quantity of solid particles filling said vessel to more than half its volume and having, at its upper axial end, an opening (18) of sufficient size to permit the passage of an article to be treated, surrounded by a collar (19) to retain the particles, - a support (7, 9, 12) capable of holding the article (8) to be treated in a substantially fixed working position inside the vessel, - means of driving the vessel in rotation about its axis, characterized in that : - the means (11) of displacing the object between said working position and a loading and unloading position, where the article is outside the mass of particles, allow displacement of the article from the loading and unloading position into the working position during rotation of the vessel about its axis and to this end comprise a column (7) having the same axis as the vessel, passing through the bottom of the vessel and being capable of sliding axially through the bottom of the vessel, this column carrying means (5, 10) of clamping the article, and in that the means (11) of displacing the article are placed on the other side of the bottom of the vessel from the clamping means, - the means of driving the vessel in rotation are designed to make the latter rotate at a speed such that solid particles driven by the walls of the vessel shower down on the article in the working position, as during its displacement by said displacing means.

Abstract (fr)

Le dispositif est du type à cuve tournante (1) avec un moyen de fixation de l'objet à traiter (8) par rapport à la cuve. Pour permettre la mise en place de l'objet à traiter sans avoir à enlever les particules (20) de la cuve, il est prévu des moyens pour déplacer l'objet entre une position de chargement et de déchargement, où l'objet est à l'extérieur de la masse de particules, et une position de travail, où il est soumis à l'action de ces particules. Application au ponçage et l'égrenage de meubles.

IPC 1-7

B24B 31/02

IPC 8 full level

B24B 31/02 (2006.01); **B24B 31/10** (2006.01)

CPC (source: EP US)

B24B 31/0224 (2013.01 - EP US)

Citation (search report)

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- [A] PATENTS ABSTRACTS OF JAPAN, vol. 8, no. 152 (M-309)[1589], 14 juillet 1984; & JP-A-59 47 156 (SHINTOU BUREETAA K.K.) 16-03-1984

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0219403 A1 19870422; EP 0219403 B1 19900321; AT E51177 T1 19900415; CA 1277497 C 19901211; DE 3669677 D1 19900426; ES 2002376 A6 19880801; FR 2587928 A1 19870403; FR 2587928 B1 19890929; JP S6299070 A 19870508; US 5027558 A 19910702; US 5150548 A 19920929

DOCDB simple family (application)

EP 86402095 A 19860924; AT 86402095 T 19860924; CA 519126 A 19860926; DE 3669677 T 19860924; ES 8602188 A 19860925; FR 8514335 A 19850927; JP 22795486 A 19860926; US 72485391 A 19910702; US 91210886 A 19860929