

Title (en)

Method for cleaning or decoring of a casting piece

Title (de)

Verfahren zum Reinigen oder Entkernen eines Gussstückes

Title (fr)

Procédé de nettoyage ou de déburrage d'une pièce de fonderie

Publication

EP 1038597 B1 20031008 (FR)

Application

EP 00400636 A 20000308

Priority

FR 9903610 A 19990323

Abstract (en)

[origin: EP1038597A1] Cast piece is subjected to ultrasonic vibrations to dislodge material residues on its surfaces while being supported on anvils situated on vibrators supporting the piece and in contact with sonotrodes, hammering at very low frequency to split large internal residues, and applying a low frequency linear vibration to disintegrate and fluidize the fissured residues which are removed by a gas flow. The ultrasonic vibrations used to dislodge material residues from the surface of the cast piece are produced by an ultrasonic frequency sinusoidal or pulse vibration source of frequency 10-30 Hz, preferably 15-20 kHz. Hammering is effected at a frequency of 0.1-5 Hz and is assured by at least one sonotrode or at least one anvil. The frequency of the linear vibration applied to the piece is 100-250 Hz.

IPC 1-7

B08B 7/02; **B08B 5/00**; **B22C 9/18**

IPC 8 full level

B08B 5/00 (2006.01); **B08B 7/02** (2006.01); **B22C 9/18** (2006.01); **B22D 29/00** (2006.01)

CPC (source: EP US)

B08B 5/00 (2013.01 - EP US); **B08B 7/028** (2013.01 - EP US); **B22C 9/18** (2013.01 - EP US); **B22D 29/005** (2013.01 - EP US)

Cited by

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