

Title (en)

METHOD AND DEVICE FOR COLD MILLING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KALTMAHLEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DESTINÉS AU BROYAGE À FROID

Publication

EP 2368638 B1 20181205 (DE)

Application

EP 11159022 A 20110321

Priority

DE 102010012448 A 20100324

Abstract (en)

[origin: EP2368638A1] The method involves milling the feedstock in a milling unit (2) and cooling the feedstock with a liquid cryogenic cooling agent before or during the milling process. The liquid cryogenic cooling agent is undercooled to a temperature below its boiling point before its delivery to the milling unit. The liquid nitrogen is used as a cryogenic cooling agent. An independent claim is also included for a device for fine milling of the mill material.

IPC 8 full level

B02C 19/18 (2006.01); **B02C 23/18** (2006.01)

CPC (source: EP)

B02C 19/186 (2013.01); **B02C 23/18** (2013.01); **B02C 2201/04** (2013.01)

Citation (examination)

- DE 102007051545 A1 20090430 - MESSER GROUP GMBH [DE]
- GB 1534274 A 19781129 - BOC INTERNATIONAL LTD
- DE 19717621 A1 19980625 - LINDE AG [DE]

Cited by

EP3594554A1; CN107029840A; CN103913027A; DE102018005503A1

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

DOCDB simple family (publication)

EP 2368638 A1 20110928; EP 2368638 B1 20181205; DE 102010012448 A1 20110929; ES 2714687 T3 20190529; HU E042560 T2 20190729; PL 2368638 T3 20190628; RS 58531 B1 20190430

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