

Title (en)
Mechanical crusher

Title (de)
Mechanischer Brecher

Title (fr)
Broyeur mécanique

Publication
EP 1195201 A1 20020410 (EN)

Application
EP 01120797 A 20010911

Priority
JP 2000276115 A 20000912

Abstract (en)
The mechanical crusher (10) includes a rotating shaft (38), a rotor (40) mounted about the rotating shaft and having at least one sub-rotor (41) containing a plurality of blades (44), a liner (36) having a plurality of grooves (36a) formed on the inner peripheral surface thereof and disposed externally of the rotor with a predetermined gap defined between the inner peripheral surface thereof and the outer peripheral surface of the rotor, and a drive unit (24) for rotating the rotor. The blades of at least the one sub-rotor incline in a direction where the flow of a material to be crushed is forced back. With this arrangement, the mechanical crusher can effectively crush a fiber-including material such as wheat bran, and the like to fine powder. <IMAGE>

IPC 1-7
B02C 13/18

IPC 8 full level
B02C 17/22 (2006.01); **B02C 13/14** (2006.01); **B02C 13/18** (2006.01); **B02C 13/282** (2006.01); **B02C 18/06** (2006.01); **B02C 18/12** (2006.01)

CPC (source: EP KR)
B02C 13/14 (2013.01 - EP); **B02C 18/06** (2013.01 - KR); **B02C 18/12** (2013.01 - EP)

Citation (search report)
• [X] EP 0696475 A1 19960214 - HOSOKAWA MICRON KK [JP]
• [Y] DE 19715772 C1 19980702 - HERRMANN OTTO [DE], et al
• [Y] EP 0775526 A1 19970528 - NISSHIN FLOUR MILLING CO [JP], et al
• [Y] US 3640475 A 19720208 - JUNG RICHARD, et al

Cited by
CN109433352A; CN113289743A; EP2718354A4; CN108772151A; CN102933303A; CN108970677A; RU2742055C2; CN105326080A; CN110539424A; WO2012168563A3; JP2002085992A; US11425865B2; WO2017035578A1

Designated contracting state (EPC)
BE CH DE FR GB LI NL

DOCDB simple family (publication)
EP 1195201 A1 20020410; **EP 1195201 B1 20051228**; DE 60116214 D1 20060202; DE 60116214 T2 20060831; HK 1045659 A1 20021206; HK 1045659 B 20060421; JP 2002085992 A 20020326; JP 4689016 B2 20110525; KR 100470285 B1 20050205; KR 20020021050 A 20020318

DOCDB simple family (application)
EP 01120797 A 20010911; DE 60116214 T 20010911; HK 02107338 A 20021007; JP 2000276115 A 20000912; KR 20010056114 A 20010912