

Title (en)
CRUSHING DEVICE

Title (de)
ZERKLEINERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE BROYAGE

Publication
EP 1497032 B1 20060510 (DE)

Application
EP 03720351 A 20030324

Priority
• CH 5202002 A 20020325
• EP 0303038 W 20030324

Abstract (en)
[origin: WO03080249A1] The invention relates to a crushing device, for example for crushing products associated with the disposal, processing and recycling of refuse and valuable materials. According to the invention, the device consists of at least one rotor (1), on the periphery of which hooks are mounted (3) and at least one stator (4, 7), whereby the latter (4, 7) can be offset in the direction of the rotor axis (2) and/or rotated about its stator axis (5), once its locked position has been released. Crushing elements (6) are mounted on the stator (4), a lateral edge (10a) being aligned transversally to the direction of material flow and co-operating with the hooks (3) during the crushing process. At least one hook (3) rotates between two respective crushing elements (6), the rotational plane of said hook being located in a substantially eccentric area in relation to the interval between two crushing elements (6). By rotating the stator (4) through 90 DEG, the edge (10a) can be replaced by the following edge (10b) in the peripheral direction, thus considerably prolonging the service life of the stator (4).

IPC 8 full level
B02C 18/14 (2006.01); **B02C 18/16** (2006.01); **B02C 18/18** (2006.01)

CPC (source: EP US)
B02C 18/142 (2013.01 - EP US); **B02C 18/16** (2013.01 - EP US); **B02C 18/182** (2013.01 - EP US); **B02C 2018/164** (2013.01 - EP US); **B02C 2018/188** (2013.01 - EP US)

Cited by
WO2014001428A2; EP2980315A1; EP3020864A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03080249 A1 20031002; AT E325658 T1 20060615; AU 2003223979 A1 20031008; CN 100579659 C 20100113; CN 1642652 A 20050720; DE 50303295 D1 20060614; DK 1497032 T3 20060911; EP 1497032 A1 20050119; EP 1497032 B1 20060510; ES 2262993 T3 20061201; US 2005116075 A1 20050602

DOCDB simple family (application)
EP 0303038 W 20030324; AT 03720351 T 20030324; AU 2003223979 A 20030324; CN 03807052 A 20030324; DE 50303295 T 20030324; DK 03720351 T 20030324; EP 03720351 A 20030324; ES 03720351 T 20030324; US 50913504 A 20040927