

Title (en)

Apparatus for and method of obtaining a comminuted product from a solid feed material.

Title (de)

Vorrichtung und Verfahren zur Erzeugung eines zerkleinerten Produktes aus einem festen Ausgangsmaterial.

Title (fr)

Appareil et méthode permettant d'obtenir un produit broyé à partir d'un matériau d'alimentation solide.

Publication

EP 0140613 A2 19850508 (EN)

Application

EP 84306892 A 19841010

Priority

GB 8327201 A 19831011

Abstract (en)

An apparatus for obtaining a comminuted "fines" product from a solid feed material, a large proportion of the particles of which are greater than 1 cm, comprises a housing having a lower region forming a crusher (10) and an upper region forming a classifier (11). There is an inlet for the solid feed material leading to a hopper (22) from whence feed material passes to a rotor (13) which causes the material to be flung centrifugally outwards in the crushing chamber (23) where it is comminuted. As a result of movement of the rotor, there is a predominantly upward air flow (F) from the crushing chamber (23) to the classifier (11). This air flow entrains a high proportion of "fines" which can be classified, in the classifier (11) using vanes (21), and collected. The apparatus is capable of producing an output product having a very high proportion of "fines" from even very abrasive feed material with particles of a size up to 5 cm.

IPC 1-7

B02C 19/00; **B02C 23/00**

IPC 8 full level

B02C 13/14 (2006.01); **B02C 13/18** (2006.01); **B02C 23/32** (2006.01)

CPC (source: EP)

B02C 13/14 (2013.01); **B02C 13/1835** (2013.01); **B02C 23/32** (2013.01); **B02C 2013/1885** (2013.01)

Cited by

CN115254310A; EP0426651A3; CN103433105A; FR2936431A1; DE3609229A1; US4921173A; AU594367B2; CN116213080A; WO9816316A1; WO9007379A1

Designated contracting state (EPC)

AT BE CH DE FR IT LI LU NL SE

DOCDB simple family (publication)

EP 0140613 A2 19850508; **EP 0140613 A3 19860430**; GB 2147824 A 19850522; GB 8327201 D0 19831109; GB 8425540 D0 19841114

DOCDB simple family (application)

EP 84306892 A 19841010; GB 8327201 A 19831011; GB 8425540 A 19841010