

Title (en)  
MULTIPLE STAGE COMMINATION DEVICE

Publication  
**EP 0029734 B1 19841107 (EN)**

Application  
**EP 80304215 A 19801125**

Priority  
CA 340643 A 19791126

Abstract (en)  
[origin: EP0029734A1] A material handling device intended for providing finely comminuted material or which may be used as a mass transfer device or as a chemical reactor involving providing comminuted material to provide freshly exposed reactive surfaces comprises a housing (10) having a central chamber divided into a plurality of stages defined by rotary support means (18). The housing has a central axis (16) and a plurality of rotating masses (42, 44, 46) are provided, each such rotating mass being mounted on a flexible axle (36, 38, 40), said axles being parallel to the axis of said chamber. Means are provided to cause rotation of said support means (18) about the axis (16) of said chamber whereby the outer surface of said masses contacts the inner surface (14) of said chamber to cause crushing forces to handle material passing through the apparatus, the crushing forces being a combination of centrifugal and gyroscopic forces.

IPC 1-7  
**B02C 15/08**

IPC 8 full level  
**B01F 7/30** (2006.01); **B01F 7/08** (2006.01); **B02C 15/08** (2006.01); **B02C 19/10** (2006.01)

CPC (source: EP)  
**B02C 15/08** (2013.01)

Cited by  
CN102327798A; GB2451299B; GB2451299A; GB2460505A; GB2460505B; WO2008135599A3; US8360351B2

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