

Title (en)
Agitator mill.

Title (de)
Rührwerksmühle.

Title (fr)
Broyeur agitateur.

Publication
EP 0504836 B1 19950614 (DE)

Application
EP 92104678 A 19920318

Priority
DE 4109332 A 19910321

Abstract (en)
[origin: EP0504836A1] The mill container (12) of an agitator mill contains a milling space (18) which can be filled at least partially with milling bodies (50) and material (52) for milling and has an inlet (28) for material for milling and an outlet (30) for milled material. The associated agitator shaft (22) has an inner shaft end (38) arranged in the milling space (18) and contains a cavity (40) which is open at the end side of the inner shaft end (38) so that milling bodies (50) and material (52) for milling can flow into it at the end. The agitator shaft (22) has outlet openings (46) round the cavity (40), said openings allowing milling bodies (50) which have passed through the inner shaft end (38) into the cavity (40) to flow back into the milling space (18). In a central region of the cavity (40), a separating device (42) is arranged which allows finished ground material (52) to flow out of the milling space (18) to the outlet (30) for milled material, but retains milling bodies (50). The cavity (40) is divided inside the agitator shaft (22) into an inner zone (70) and an outer zone (72) by means of an intermediate cage (60) which is arranged on the same axis as the separating device (42) all around the latter and is driven in rotation. Between the inner shaft end (38) and the separating device (42) a deflector (54) is arranged which prevents milling bodies (50) and material (52) for milling flowing axially directly into the inner zone (70). <IMAGE>

IPC 1-7
B02C 17/16

IPC 8 full level
B02C 17/16 (2006.01)

CPC (source: EP)
B02C 17/161 (2013.01)

Cited by
EP1992412A1; US5853132A; US7699250B1; KR20130118886A; DE4307083B4; CN104053506A; KR101128541B1; KR101230133B1; EP2886211A1; US2015174585A1; CN104722368A; US11731139B2; WO2014187824A1; EP0700723A1; EP3536406A1; CN111801165A; JP2021515694A; RU2754588C1; WO2007042059A1; WO2019170663A1; US7931222B2; EP4032615A1; DE102021101527A1; DE102021101527B4

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