

Title (en)  
ROLLER MILL WITH SEALING GAS IMPINGEMENT

Title (de)  
WÄLZMÜHLE MIT SPERRGASBEAUFSCHLAGUNG

Title (fr)  
BROYEUR À ROULEAUX AVEC INJECTION DE GAZ D'ARRÊT

Publication  
**EP 2282836 A1 20110216 (DE)**

Application  
**EP 09741776 A 20090311**

Priority  
• EP 2009001720 W 20090311  
• DE 102008022847 A 20080508  
• DE 202008006372 U 20080508

Abstract (en)  
[origin: WO2009135557A1] In a roller mill (1, 46), in particular a coal mill, comprising a mill housing (2) comprising a rotating grinding table (4) with grinding tools located thereon, in particular grinding rolls (5), a grind material feed (9), a classifier (8), at least one grind material exit (11), at least one sealing gas seal (14, 16, 17, 19) that seals off the mill interior (31) from the outside atmosphere in the area of moving mill elements and a carrier gas feed (12), wherein the roller mill (1, 46) can be operated in pressurized mode, a solution is to be provided that facilitates the use of recirculated stack gas as sealing gas without significantly affecting the mill environment. This is accomplished in that at least the at least one sealing gas seal (14, 16) comprises a first sealing chamber (22a, 22b, 22c) and a second sealing chamber (23a, 23b, 23c), wherein the first sealing chamber (22a, 23a, 22b, 22c) is acted upon by a sealing gas having a sealing gas pressure that is greater than the mill pressure in the mill interior (31) during milling operation and the second sealing chamber (23a, 23b, 23c) is acted upon by a sealing gas having a sealing gas pressure that is lower than the sealing gas of the first sealing chamber (22a, 22b, 22c) and wherein a take-off, in particular a line (24a, 24b, 24c), is disposed at the second sealing chamber (23a, 23b, 23c), said take-off discharging the sealing gas from the second sealing chamber (23a, 23b, 23c).

IPC 8 full level  
**B02C 15/00** (2006.01)

CPC (source: EP US)  
**B02C 15/04** (2013.01 - EP US); **B02C 2015/002** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009135557A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2009135557 A1 20091112**; AU 2009243788 A1 20091112; AU 2009243788 B2 20120621; CN 102066004 A 20110518; EP 2282836 A1 20110216; EP 2282836 B1 20120523; US 2011108643 A1 20110512

DOCDB simple family (application)  
**EP 2009001720 W 20090311**; AU 2009243788 A 20090311; CN 200980122544 A 20090311; EP 09741776 A 20090311; US 99096609 A 20090311