

Title (en)  
Device for crushing a material

Title (de)  
Vorrichtung zum Zerkleinern eines Materials

Title (fr)  
Dispositif pour broyer un matériau

Publication  
**EP 2781266 A1 20140924 (EN)**

Application  
**EP 14000980 A 20140317**

Priority  
SI 201300065 A 20130318

Abstract (en)  
The invention refers to a device for crushing a material, especially coal. The device of the invention solves the technical problem how to provide a compact construction of a device for crushing a material that will be devoid of projecting parts and will at the same time be safe from fire and explosion. The device for crushing a material comprises a steel housing (2), a chain conveyor (5), a crusher roller (6) with crusher blades (8), an electric motor (10), a control unit for controlling the drive of the device, and a planetary gear (22). The electric motor (10) and the planetary gear (22) are arranged in the interior of the crusher roller (6). Rotational movement is transferred from the drive shaft (11) with a pinion (12) to the sun gear (13) and from there to planetary gears (14) and further to the crusher roller with the annular gear (9) with internal toothing. The drive shaft of the electric motor is formed with weakened area (15).

IPC 8 full level  
**B02C 4/10** (2006.01); **B02C 4/30** (2006.01); **B02C 4/42** (2006.01)

CPC (source: EP)  
**B02C 4/10** (2013.01); **B02C 4/42** (2013.01); **B02C 18/145** (2013.01); **B02C 18/24** (2013.01)

Citation (applicant)  
GB 922986 A 19630403 - ADELE OELLRICH

Citation (search report)  
• [Y] WO 9216296 A1 19921001 - GUNDLACH T J CO [US]  
• [Y] GB 1059694 A 19670222 - MINING ENGINEERING COMPANY MEC  
• [A] US 4103832 A 19780801 - BRAUN ERNST, et al  
• [A] DE 202008017994 U1 20110324 - MAAG GEAR AG [CH]

Cited by  
CN104984789A; CN109926185A; CN105396646A; CN104475197A; CN112791824A; CN108187812A; CN107597351A; CN110882822A; CN117101840A

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2781266 A1 20140924**; SI 24306 A 20140930

DOCDB simple family (application)  
**EP 14000980 A 20140317**; SI 201300065 A 20130318