

Title (en)  
APPARATUS AND METHOD FOR COMMINATION OF ORE WITH A SPRING ARRANGEMENT

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM ERZZERKLEINERN MIT FEDEREINRICHTUNG

Title (fr)  
APPAREIL ET PROCÉDÉ POUR LE BROYAGE DE MINERAI AVEC UN DISPOSITIF À RESSORT

Publication  
**EP 2981360 B1 20180530 (DE)**

Application  
**EP 14715321 A 20140407**

Priority  
• DE 102013005943 A 20130405  
• EP 2014056901 W 20140407

Abstract (en)  
[origin: CA2910729A1] The invention relates to a device (290) for comminuting ore and/or slag, comprising an ore feeding unit (1) for feeding ore which is to be comminuted to a first pulverizer, the first pulverizer (300) being composed of at least of two comminuting elements (30, 40) which can be moved relative to each other, said elements forming together at least one comminuting space for the ore which is to be comminuted such that, by a relative movement in the form of a rotation about the rotational axis of at least one of the two comminuting elements (30, 40), the ore which is to be comminuted is at least partially pulverized. One or more accelerating elements (35), in particular protrusions (35), are provided on at least one of the comminuting elements (30,40), said accelerating elements being arranged in particular on the end face of at least one of the two comminuting elements (30, 40) and accelerating and comminuting the ore to be comminuted by the rotation of one of the two comminuting elements (30, 40). An intermediate space (60) is provided between the two comminuting elements (30, 40) and/or in at least one of the two comminuting elements, through which space the pulverized ore, during the rotation, is transported from the center of rotation toward the outside and away from the two comminuting elements (30, 40). At least one of the two comminuting elements (30, 40) interacts with a spring device (504), said spring device (504) being designed such that the comminuting element (30, 40) with which it interacts, is variably mounted in the direction of the other comminuting elements (30, 40).

IPC 8 full level  
**B02C 7/06** (2006.01); **B02C 7/14** (2006.01); **B02C 19/00** (2006.01); **B02C 21/02** (2006.01)

CPC (source: EP US)  
**B02C 7/06** (2013.01 - EP US); **B02C 7/14** (2013.01 - EP US); **B02C 19/0012** (2013.01 - EP US); **B02C 21/02** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**DE 102013005943 A1 20141009**; AU 2014247020 A1 20151119; AU 2014247020 B2 20181025; CA 2910729 A1 20141009; CA 2910729 C 20210518; CL 2015002953 A1 20160624; CN 105555407 A 20160504; CN 105555407 B 20180202; EP 2981360 A1 20160210; EP 2981360 B1 20180530; NZ 713858 A 20191220; US 2016129450 A1 20160512; US 9908120 B2 20180306; WO 2014162011 A1 20141009; ZA 201507356 B 20170329

DOCDB simple family (application)  
**DE 102013005943 A 20130405**; AU 2014247020 A 20140407; CA 2910729 A 20140407; CL 2015002953 A 20151005; CN 201480030851 A 20140407; EP 14715321 A 20140407; EP 2014056901 W 20140407; NZ 71385814 A 20140407; US 201414782355 A 20140407; ZA 201507356 A 20151005