

Title (en)
APPARATUS AND METHOD FOR COMMINATION OF ORE WITH RECIRCULATION

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ERZZERKLEINERN MIT RÜCKFÜHRUNG

Title (fr)
APPAREIL ET PROCÉDÉ POUR LE BROYAGE DE MINERAI AVEC RECIRCULATION

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Application
EP 14715322 A 20140407

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Abstract (en)
[origin: CA2910741A1] 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). The claimed invention also comprises an outlet device (14) for discharging the pulverized ore through the first pulverizer which is connected to the intermediate space (60). The outlet device is connected to a separating device (413) through which the pulverized ore can be distributed in two parts, the first part of the pulverised ore having a particle size which is essentially larger than a predetermined particle size of the second part of the pulverised ore, the first part of the pulverised ore being guided to the first pulverizer or to the second pulverizer and the second part of the pulverised ore is guided to a flotation device.

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