

Title (en)
METHOD, CONTROL DEVICE AND DRIVE DEVICE FOR DETACHING A CHARGE STUCK TO THE INNER WALL OF A GRINDING PIPE

Title (de)
VERFAHREN, STEUERVORRICHTUNG UND ANTRIEBSVORRICHTUNG ZUM LÖSEN EINER FESTGEKLEBTEN LADUNG VON DER INNENWAND EINES MAHLROHRS

Title (fr)
PROCEDE, DISPOSITIF DE COMMANDE ET DISPOSITIF D'ENTRAINEMENT POUR DETACHER UNE CHARGE COLLANT A LA PAROI INTERNE D'UN TUBE BROUYEUR

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Abstract (en)
[origin: WO2005092508A1] The invention relates to a method for detaching a charge (5) which is stuck to the inner wall of a grinding pipe (1), wherein the drive device (2) of the grinding pipe (1) is controlled by a control device (3) for targeted removal of the charge (5) that is stuck. The grinding pipe (1) is rotated in a targeted manner such that the charge (5) that is stuck is removed from the inner wall of the grinding pipe (1) as a result of multiple modification of the rotational speed of the grinding pipe (1) and, optionally, as a result of abrupt braking of the grinding pipe (1). Generally speaking, the material-dependent maximum angle of rotation F of the grinding pipe is not exceeded in order to avoid the charge that is stuck from falling in an uncontrolled manner. The invention supercedes labour-intensive and protracted methods for detaching such charges (5) since the tasks can be carried out by the same motor of the drive device (2) which is used to drive the grinding pipe (1) during the grinding process.

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WO 2005092508 A1 20051006; AR 085938 A2 20131106; AU 2005227083 A1 20051006; AU 2005227083 B2 20090716; AU 2005227083 B9 20091217; BR PI0509198 A 20070918; BR PI0509198 B1 20180508; BR PI0520878 B1 20181121; CA 2560875 A1 20051006; CA 2560875 C 20121009; CN 100522368 C 20090805; CN 1993182 A 20070704; DE 102004015057 A1 20051020; DE 502005011302 D1 20110609; EP 1735099 A1 20061227; EP 1735099 B1 20110427; EP 2353724 A2 20110810; EP 2353724 A3 20120822; EP 2353724 B1 20131030; ES 2363088 T3 20110720; ES 2435665 T3 20131220; PE 20051026 A1 20060208; RU 2006137571 A 20080427; RU 2350392 C2 20090327; US 2008169368 A1 20080717; US 2011283504 A1 20111124; US 8079536 B2 20111220; US 8276837 B2 20121002; ZA 200607665 B 20080326

DOCDB simple family (application)
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