Title (en)
METHOD FOR CONTROLLING LONGWALL MINING OPERATIONS BY IDENTIFYING BOUNDARY LAYERS

Title (de)
VERFAHREN ZUM STEUERN VON STREBBETRIEBEN MITTELS GRENZSCHICHTERKENNUNG

Title (fr)
PROCÉDÉ POUR ASSURER LA COMMANDE D'INSTALLATIONS D'EXPLOITATION PAR TAILLE, PAR IDENTIFICATION DE COUCHES LIMITES

Publication
EP 2242900 A1 20101027 (DE)

Application
EP 08707764 A 20080219

Priority
EP 2008001264 W 20080219

Abstract (en)
[origin: WO2009103305A1] Disclosed is a method for controlling longwall coal mining operations comprising a face conveyor (20), at least one extraction machine (22), and a hydraulic shield support. In said method, at least one sensor (17) is arranged on the shield support frames (10) in order to sense solid-borne noise data generated by the intervention of the extraction machine (21) in coal (35) and/or country rock (28, 29), and a cut of the extraction machine (22) into the country rock (28, 29) is determined in a computer unit that is connected thereafter on the basis of the recorded oscillation data corresponding to the generated solid-borne noise.

IPC 8 full level
E21C 25/56 (2006.01); **E21C 35/24** (2006.01); **E21C 41/16** (2006.01); **E21D 23/12** (2006.01)

CPC (source: EP US)
E21C 25/56 (2013.01 - EP US); **E21C 35/24** (2013.01 - EP US); **E21C 41/16** (2013.01 - EP US); **E21D 23/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2009103305A1

Cited by
CN109613900A; CN102011587A; CN102418541A

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009103305 A1 20090827; AU 2008351274 A1 20090827; AU 2008351274 B2 20120628; EP 2242900 A1 20101027; UA 98036 C2 20120410; US 2011001348 A1 20110106; US 8608248 B2 20131217

DOCDB simple family (application)
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