Title (en)

METHOD FOR AUTOMATICALLY CREATING A DEFINED FACE OPENING IN LONGWALL COAL MINING OPERATIONS

Title (de)

VERFAHREN ZU EINER AUTOMATISCHEN HERSTELLUNG EINER DEFINIERTEN STREBÖFFNUNG BEI STREBBETRIEBEN IM UNTERTÄGIGEN STEINKOHLENBERGBAU

Title (fr)

PROCÉDÉ POUR PRATIQUER DE MANIÈRE AUTOMATIQUE UNE OUVERTURE DÉFINIE DE TAILLE DANS DES SYSTÈMES DE VEINES DE MINES DE HOUILLE SOUTERRAINES

Publication

EP 2247824 B1 20140702 (DE)

Application

EP 08707765 A 20080219

Priority

EP 2008001266 W 20080219

Abstract (en)

[origin: WO2009103307A1] Disclosed is a method for automatically creating a defined face opening in longwall coal mining operations comprising a face conveyor (20), at least one extraction machine (22), and a hydraulic shield support. In said method, the inclination of the shield components relative to the horizontal line is determined by means of inclination sensors (17) mounted on at least three of the four main components of the shield support frame (10), the shield height (31) of the shield support frame (10) perpendicular to the bed is calculated in a computer unit, and the cutting height (32) of the extraction machine (22) is detected as the face opening, the cutting height (32) of the extraction machine (22) being adjusted to the shield height (31) of the shield support frame (10) by means of a locally synchronous evaluation.

IPC 8 full level

E21C 35/14 (2006.01); **E21C 35/24** (2006.01); **E21C 41/16** (2006.01); **E21D 23/00** (2006.01); **E21D 23/12** (2006.01)

CPC (source: EP US)

E21C 35/14 (2013.01 - EP US); **E21C 35/24** (2013.01 - EP US); **E21C 41/16** (2013.01 - EP US); **E21D 23/0004** (2013.01 - EP US); **E21D 23/0034** (2013.01 - EP US); **E21D 23/0043** (2013.01 - EP US); **E21D 23/12** (2013.01 - EP US)

Cited by

CN102865075A; DE102019122431A1

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

DOCDB simple family (publication)

WO 2009103307 A1 20090827; AU 2008351276 A1 20090827; AU 2008351276 B2 20110707; CN 101952547 A 20110119; CN 101952547 B 20130508; EP 2247824 A1 20101110; EP 2247824 B1 20140702; PL 2247824 T3 20150227; US 2010327650 A1 20101230; US 8567871 B2 20131029

DOCDB simple family (application)

EP 2008001266 W 20080219; AU 2008351276 A 20080219; CN 200880127060 A 20080219; EP 08707765 A 20080219; PL 08707765 T 20080219; US 91847708 A 20080219