

Title (en)
METHOD FOR AUTOMATICALLY CREATING A DEFINED FACE OPENING IN PLOW OPERATIONS IN COAL MINING

Title (de)
VERFAHREN ZUR AUTOMATISCHEN HERSTELLUNG EINER DEFINIERTEN STREBÖFFNUNG IN HOBELBETRIEBEN DES STEINKOHLENBERGBAUS

Title (fr)
PROCEDE POUR PRATIQUER DE MANIERE AUTOMATIQUE UNE OUVERTURE DEFINIE DE TAILLE DANS DES SYSTEMES DE VEINES DE MINES DE HOUILLE

Publication
EP 2247825 A1 20101110 (DE)

Application
EP 08707766 A 20080219

Priority
EP 2008001268 W 20080219

Abstract (en)
[origin: WO2009103309A1] Disclosed is a method for automatically creating a defined face opening in longwall coal mining operations comprising a face conveyor (20), at least one plow (22) that is guided on the face conveyor (20) as an extraction machine, 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 each shield support frame (10), the shield height of the shield support frame (10) perpendicular to the bed is calculated in a computer unit, the determined shield height is adjusted to the cutting height of the plow (22), and a vertical adjustment of the plow (22) is initiated in order to correct identified differences, said vertical adjustment to be performed by means of a boom controller (26) that is arranged between the shield support frame (10) and the face conveyor (20).

IPC 8 full level
E21C 35/14 (2006.01); **E21C 35/24** (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); **E21D 23/0004** (2013.01 - EP US); **E21D 23/0034** (2013.01 - EP US); **E21D 23/0039** (2013.01 - EP US); **E21D 23/0043** (2013.01 - EP US); **E21D 23/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2009103309A1

Cited by
CN110529115A

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 2009103309 A1 20090827; AU 2008351278 A1 20090827; AU 2008351278 B2 20110519; CN 101970796 A 20110209; CN 101970796 B 20130724; EA 018180 B1 20130628; EA 201001133 A1 20110429; EP 2247825 A1 20101110; EP 2247825 B1 20141119; PL 2247825 T3 20150430; US 2011006584 A1 20110113; US 8376467 B2 20130219

DOCDB simple family (application)
EP 2008001268 W 20080219; AU 2008351278 A 20080219; CN 200880127129 A 20080219; EA 201001133 A 20080219; EP 08707766 A 20080219; PL 08707766 T 20080219; US 91848108 A 20080219