

Title (en)

METHOD AND DEVICE FOR EXTRACTING EXTRACTION PRODUCTS IN UNDERGROUND MINING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HEREINGEWINNEN VON GEWINNUNGSPRODUKTEN IM UNTERT GIGEN BERGBAU

Title (fr)

PROCEDE ET DISPOSITIF POUR EXTRAIRE DES PRODUITS D'EXTRACTION DANS LE DOMAINE DE L'INDUSTRIE MINIERE SOUTERRAINE

Publication

EP 1646766 A2 20060419 (DE)

Application

EP 04740079 A 20040618

Priority

- EP 2004006637 W 20040618
- DE 10328287 A 20030623
- DE 10353352 A 20031114

Abstract (en)

[origin: WO2005001245A2] The invention relates to a method and to an arrangement device for extracting extraction products in underground mines in caving. According to the invention, extraction products (20) breaking into an upper coal face (10) are extracted by means of at least one extraction funnel (13) or similar, into an extraction path (14) disposed practically underneath the coal face and are evacuated in said extraction path by means of an extraction conveyor (15). According to the invention, the extraction funnels (13) are arranged next to the extraction conveyor (15) and lead into a ramp surface (17), which is inclined, towards the extraction conveyor, with the lower end thereof. The extraction products extracted from the coal face by the extraction funnels are slidingly transported to the extraction conveyor via the inclined surfaces. The inclined sloped surface is, preferably, formed by a charge ramp (22) which is arranged in an extraction chamber (16) which branches off in a lateral manner from the extraction path, such that one of the high-lying ends (19) thereof is disposed below the extraction funnel and the other low-lying end thereof (23) forms an outlet (21) leading to the extraction conveyor.

IPC 1-7

E21F 13/06; **E21D 9/12**; **E21F 13/04**; **E21C 35/20**; **E21F 13/00**

IPC 8 full level

E21C 35/20 (2006.01); **E21D 9/12** (2006.01); **E21F 13/00** (2006.01); **E21F 13/04** (2006.01); **E21F 13/06** (2006.01)

CPC (source: EP US)

E21C 35/20 (2013.01 - EP US); **E21D 9/12** (2013.01 - EP US); **E21F 13/002** (2013.01 - EP US); **E21F 13/04** (2013.01 - EP US); **E21F 13/061** (2013.01 - EP US)

Citation (search report)

See references of WO 2005001245A2

Designated contracting state (EPC)

SE

DOCDB simple family (publication)

WO 2005001245 A2 20050106; **WO 2005001245 A3 20050224**; AU 2004251183 A1 20050106; AU 2004251183 B2 20080306; CA 2526264 A1 20050106; CA 2526264 C 20081104; EP 1646766 A2 20060419; EP 1646766 B1 20081001; RU 2006101677 A 20060610; RU 2334111 C2 20080920; US 2006208555 A1 20060921; US 7350874 B2 20080401

DOCDB simple family (application)

EP 2004006637 W 20040618; AU 2004251183 A 20040618; CA 2526264 A 20040618; EP 04740079 A 20040618; RU 2006101677 A 20040618; US 56167404 A 20040618