

Title (en)

Method for obtaining aggregate of post-mining gangue and machinery for carrying out the method

Title (de)

Verfahren zur Gewinnung von Aggregaten von Bergbaugestein und Vorrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé d'obtention d'agrégat de gangue post-exploitation minière et machines pour la mise en oeuvre du procédé

Publication

EP 2868383 A1 20150506 (EN)

Application

EP 13460082 A 20131213

Priority

PL 40585813 A 20131030

Abstract (en)

Method for obtaining aggregate of post-mining gangue obtained from the process of classification and concentration of coal and from underground preparatory works and coal seam works, characterized in that the gangue is driven by belt conveyors to the hopper (3), from where it is redirected through a magnetic separator (4) eliminating metal contamination, to the selective impact crusher (5) of first degree comminution, wherein the product obtained from this crusher is initially screened through a double-deck vibrating screen (6), wherein the under-screen product is stored as material for backfilling of mining workings, and the over-screen product is subjected to a subsequent process of crushing in an impact selective crusher of second stage comminution (7) and then the crushing products are targeted to triple-deck vibrating screen (8) to undergo a process of classification. The system of devices for obtaining aggregate of post-mining gangue contains consecutively arranged devices: hopper (3), magnetic separator (4), selective impact crusher (5) of first-degree comminution, double-deck vibrating screen (6), selective impact crusher of second-degree comminution (7), and triple-deck vibrating screen (8), wherein the devices included in the system are joint by a system of central dedusting (9), which captures dust generated during operation of crushers (5) and (7) and vibrating screens (6) and (8).

IPC 8 full level

B03B 9/00 (2006.01); **B02C 23/14** (2006.01)

CPC (source: EP)

B02C 23/14 (2013.01); **B03B 9/00** (2013.01); **B03B 9/005** (2013.01)

Citation (search report)

- [IY] KR 100956626 B1 20100506 - INSUN ENT CO LTD [KR]
- [YA] DE 2217572 A1 19731018 - RUEHL GERHARD PROF DR ING HABI

Cited by

CN109250723A; CN106885744A; CN106379909A; CN108787134A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2868383 A1 20150506; PL 224307 B1 20161230; PL 405858 A1 20140512

DOCDB simple family (application)

EP 13460082 A 20131213; PL 40585813 A 20131030