

Title (en)

SYSTEM FOR SEPARATING NON-MAGNETISABLE METALS FROM A MIXTURE OF SOLIDS

Title (de)

ANORDNUNG ZUM ABTRENNEN VON NICHTMAGNETISIERBAREN METALLEN AUS EINER FESTSTOFFMISCHUNG

Title (fr)

INSTALLATION DE SEPARATION DE METAUX NON MAGNETISABLES CONTENUS DANS UN MELANGE DE MATERIAUX SOLIDES

Publication

EP 0861124 A1 19980902 (DE)

Application

EP 96917339 A 19960613

Priority

- DE 9601038 W 19960613
- DE 19521415 A 19950614

Abstract (en)

[origin: US6068133A] PCT No. PCT/DE96/01038 Sec. 371 Date May 28, 1998 Sec. 102(e) Date May 28, 1998 PCT Filed Jun. 13, 1996 PCT Pub. No. WO97/00138 PCT Pub. Date Jan. 3, 1997A system for separating non-magnetizable metals from a mixture of solid with a feed device; an endless conveyor belt with belt drums supported on a frame, of which the head drum at the discharge end is provided with a driven, eccentrically mounted and adjustable magnet rotor; and a separation area downstream of the head drum. To improve the degree of separation achieved, the system is provided with a vibrating channel (2) with an additional slope; means for adjusting the speed of the conveyor belt (3); means for generating a variable force of repulsion (Fvar); a controlled rotational speed adjustment unit (nvar) for the magnet rotor (3.4); and adjustable separating elements (4.1, 4.2, 4.3), each of which is located between two adjacent throwing parabolas of the separated fractions.

IPC 1-7

B03C 1/247

IPC 8 full level

B03C 1/247 (2006.01)

CPC (source: EP US)

B03C 1/247 (2013.01 - EP US); **B03C 2201/20** (2013.01 - EP US)

Citation (search report)

See references of WO 9700138A1

Cited by

CN105689119A; CN111298966A; US8056730B2; WO2019097528A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI NL SE

DOCDB simple family (publication)

US 6068133 A 20000530; AT E204210 T1 20010915; DE 19521415 A1 19970102; DE 19521415 C2 19970703; DE 59607514 D1 20010920; EP 0861124 A1 19980902; EP 0861124 B1 20010816; WO 9700138 A1 19970103

DOCDB simple family (application)

US 98306398 A 19980528; AT 96917339 T 19960613; DE 19521415 A 19950614; DE 59607514 T 19960613; DE 9601038 W 19960613; EP 96917339 A 19960613