

Title (en)

METHOD AND DEVICE FOR EXTRACTING NON-MAGNETIC ORES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR GEWINNUNG VON NICHTMAGNETISCHEN ERZEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR EXTRAIRE DES MINÉRAUX NON MAGNÉTIQUES

Publication

EP 2242584 A2 20101027 (DE)

Application

EP 09709543 A 20090210

Priority

- EP 2009051489 W 20090210
- EP 08002788 A 20080215
- EP 09709543 A 20090210

Abstract (en)

[origin: EP2090367A1] The method involves providing a pulp (P), which continuously flows via a reactor (1) in a flow direction. Magnetic- or magnetizable magnet particles are supplied to the pulp, where the particles form ore-magnetic particle-agglomerates with non-magnetic ore particles. The agglomerates are moved into an accumulation region (4) of the reactor by a magnetic field, and are separated into ore particles and magnetic particles. The separated magnetic particles are hydrophobized such that new ore magnetic particle agglomerates are formed during a new reciprocal effect with the non-magnetic particles. An independent claim is also included for a device for continuously producing non-magnetic ores from a pulp.

IPC 8 full level

B03C 1/015 (2006.01); **B03C 1/28** (2006.01)

CPC (source: EP US)

B03C 1/01 (2013.01 - EP US); **B03C 1/015** (2013.01 - EP US); **B03C 1/288** (2013.01 - EP US); **B03C 2201/18** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP)

Citation (search report)

See references of WO 2009101070A2

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DOCDB simple family (publication)

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DOCDB simple family (application)

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