

Title (en)

APPARATUS FOR SEPARATING FOREIGN PARTS, IN PARTICULAR METALLIC PARTICLES, FROM A FLOWABLE MATERIAL

Publication

EP 0266309 A3 19890809 (DE)

Application

EP 87810581 A 19871008

Priority

CH 431686 A 19861031

Abstract (en)

[origin: US4863040A] Contaminated portions of bulk material are removed from a flow of bulk material with the aid of a flow or drop pipe in a casing that is movable back and forth between a discharge position and a normal flow position. The flow or drop pipe is equipped with baffle plates or bends for sufficiently retarding the free flow of the flowable bulk material to enable a detector and control mechanism to respond to the presence of contaminations and to then move the casing for the discharge of a contaminated portion of bulk material. The movement of the casing of the flow pipe assures that a slide gate or a portion of the casing closes the upper inlet to prevent the further flow of bulk material when the casing is in a discharge position. Due to the retardation of the free flow of the bulk material, it is possible to construct the apparatus with a substantially shorter structural height than was possible heretofore.

IPC 1-7

B07C 5/36

IPC 8 full level

B07C 5/344 (2006.01); **B07C 5/36** (2006.01)

CPC (source: EP US)

B07C 5/344 (2013.01 - EP US); **B07C 5/362** (2013.01 - EP US); **B07C 2501/0036** (2013.01 - EP US)

Citation (search report)

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- [Y] FR 2547638 A1 19841221 - HERVE BERNARD [FR]
- [A] US 3543925 A 19701201 - LOUGHERY GEORGE B
- [A] GB 2031303 A 19800423 - DE BEERS CONS MINES LTD

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US5377847A; DE102004032086B3

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0266309 A2 19880504; EP 0266309 A3 19890809; EP 0266309 B1 19901031; AT E57856 T1 19901115; CH 671714 A5 19890929; DE 3765906 D1 19901206; ES 2018575 B3 19910416; US 4863040 A 19890905

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