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(54) Title: MATERIAL HANDLING APPARATUS

(57) Abstract: A material handling apparatus for conveying an article having a ferromagnetic component includes a hopper, a discharge, and a magnet. The hopper has an inlet and outlet and defines a hopper volume for receiving a plurality of the articles to be conveyed. The discharge is spaced from and downstream of the hopper. The magnet is movable between an attracting position proximate the hopper and a discharge position proximate the discharge.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER		
<i>B03C 1/02(2006.01)i, B65G 47/18(2006.01)i, B65G 65/30(2006.01)i, B65G 43/08(2006.01)i</i>		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) B03C 1/02; B65B 29/00; C09K 15/04; B03C 1/26; B03C 1/22; B65B 31/04; B05D 3/06; B23Q 11/00		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models Japanese utility models and applications for utility models		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: oxygen reactive packet, ferromagnetic comonent, hopper, discharge, conveyor		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2002-0003134 A (SU HUN JUNG) 10 January 2002. See the entire document.	1-27
A	KR 10-2010-0034871 A (HYUNG SUNG CORP. et al.) 2 April 2010. See the entire document.	1-27
A	US 03922219 A (JEH-MANN LEE et al.) 25 November 1975. See the entire document.	1-27
A	US 6321509 B1 (GARY R. DELDUCA et al.) 27 November 2001. See the entire document.	1-27
A	US 6259107 B1 (BECRAFT MICHAEL L. et al.) 10 July 2001. See the entire document.	1-27
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
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Information on patent family members

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