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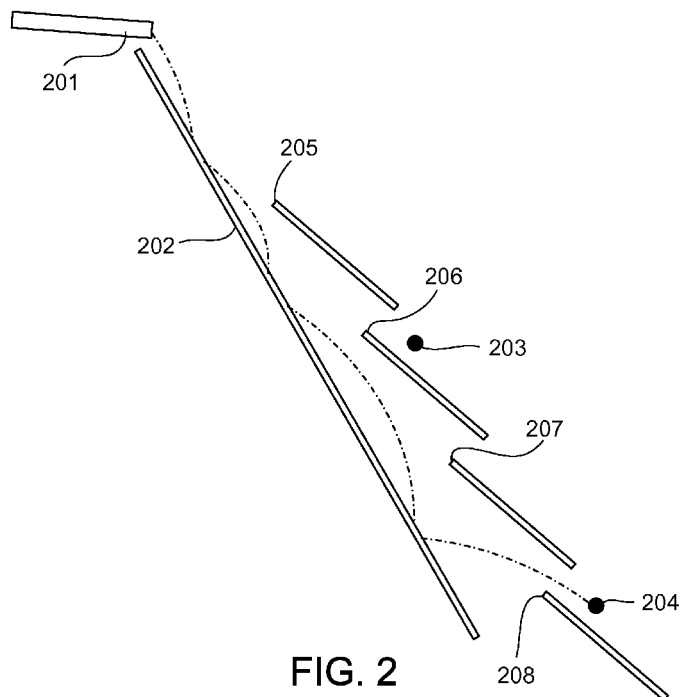
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(54) Title: INCLINED CHUTE SORTER



(57) Abstract: A method of separating a mixture of solid materials includes supplying a stream of a mixture of solid materials to a stationary inclined surface and collecting a plurality of particles at one or more collection ports spaced from and located along the axis of the inclined surface. The mixture of solid materials includes a plurality of particles. The plurality of particles includes rubber particles and plastic particles. The particles of the mixture contact the stationary inclined surface and travel downward along the surface due to gravitational force. The collected particles include a higher percentage of the rubber particles than mixture due to a greater degree of bouncing of the rubber particles due to their higher friction compared with plastic particles. A material sorting apparatus includes a stationary inclined surface, a feeder, and a plurality of collection ports spaced from and located along the axis of the inclined surface.





SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.
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)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 195 35 296 A1 (HAMOS ELEKTRONIK GMBH [DE]) 27 March 1997 (1997-03-27) the whole document	1-46
X	DE 195 10 923 A1 (WIPAG POLYMERTECHNIK PETER WIE [DE] WIPAG SUED GMBH & CO KG [DE]) 10 October 1996 (1996-10-10) figure 3 claims	1-19,22, 25-33, 35,37, 39-41,44
X	US 2 304 554 A (DIXON HENRY L) 8 December 1942 (1942-12-08) the whole document	1,26
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See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search 17 October 2012	Date of mailing of the international search report 29/10/2012
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Whelan, Natalie
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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 10 2009 031762 A1 (MOGENSEN GMBH & CO KG [DE]) 5 January 2011 (2011-01-05) figure 1 claims paragraphs - paragraph [0012] -----	1,26

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/031255

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19535296	A1	27-03-1997	NONE
DE 19510923	A1	10-10-1996	NONE
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DE 102009031762	A1	05-01-2011	NONE