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(54) Title: IRRIGATION SYSTEM HAVING AN APPLICANT DISPERSAL ASSEMBLY

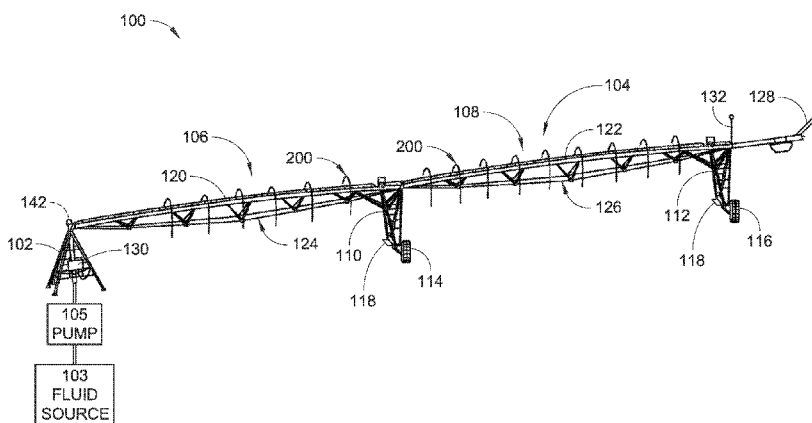


FIG. 1A

(57) Abstract: An applicant dispersal assembly is described that couples to an irrigation system. It is contemplated that the irrigation system may be a center pivot irrigation system, a linear move irrigation system, or the like. The applicant dispersal assembly is configured to receive an applicant and selectively adjust a flow rate of the applicant. In an implementation, the applicant dispersal assembly includes a pump assembly configured to couple to an irrigation conduit. The irrigation conduit is configured to provide an applicant to the pump assembly for dispersing over a cultivation area. The pump assembly is configured to pump the applicant and to selectively adjust a flow rate of the applicant. The applicant dispersal assembly also includes an applicant dispersal device that is coupled to the pump assembly. The applicant dispersal device is configured to disperse the applicant.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/030538**A. CLASSIFICATION OF SUBJECT MATTER***A01G 25/09(2006.01)i, A01G 25/00(2006.01)i, A01M 7/00(2006.01)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)

A01G 25/09; A01C 23/04; A01G 25/16; F16K 31/00

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: irrigation, flow rate, pre-determine

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05246164 A (MCCANN; IAN R. et al.) 21 September 1993 See figures 1, 3, 5 and 6; column 5, lines 1-24; column 6 lines 27-57.	1-25
A	US 2009-0277506 A1 (BRADBURY STUART FRANCIS et al.) 12 November 2009 See figure 1; paragraph [0034]; claims 1, 10 and 37.	1-25
A	US 05878953 A (COFFMAN; WILLIAM S.) 09 March 1999 See figure 1; column 3, line 56 - column 4, line 5; column 5, lines 26-43.	1-25
PA	WO 2012-021687 A2 (VALMONT INDUSTRIES, INC. et al.) 16 February 2012 See figures 1 and 5; paragraph [0016]; claim 1.	1-25

 Further documents are listed in the continuation of Box C. 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

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"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

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05246164 A	21.09.1993	None	
US 2009-0277506 A1	12.11.2009	AU 2009-201923 A1 NZ568218A	26.11.2009 26.11.2010
US 05878953 A	09.03.1999	None	
WO 2012-021687 A2	16.02.2012	WO 2012-021690 A2	16.02.2012