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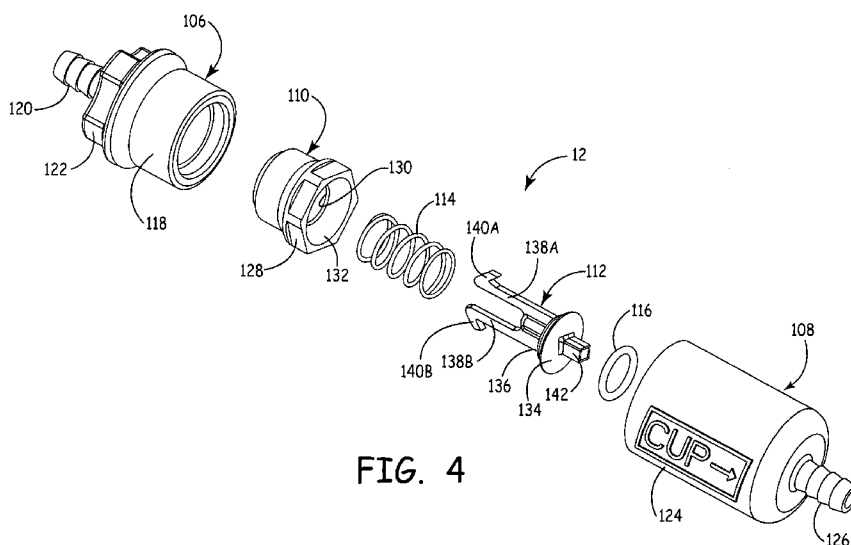


FIG. 4

(S7) Abstract: An air-assisted sprayer comprises a platform, a fluid cup, an air reservoir, a spray cap, a pressure line, a fluid reservoir and a poppet valve. The fluid cup is connected to the platform to hold a volume of fluid. The air reservoir extends through the platform and is configured to receive pressurized air. The spray cap is connected to the platform to receive pressurized air from the air reservoir. The pressure line connects the air reservoir with the fluid cup to pressurize the volume of fluid. The fluid reservoir extends from the fluid cup to the platform to provide pressurized fluid to the spray cap. The poppet valve is in fluid communication with the pressure line between the volume of fluid and the air reservoir to prevent fluid from entering the air reservoir.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/006667**A. CLASSIFICATION OF SUBJECT MATTER*****B05B 7/02(2006.01)i, B05B 7/24(2006.01)i, B05B 15/00(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)

B05B 7/02; B05B 1/28; B05B 7/08; B05B 7/24; B05B 7/30; B64D 15/00

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: air, sprayer, backflow, prevent, check valve, poppet valve

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y X A	US 6708900 B1 (ZHU; HEPING et al.) 23 March 2004 See column 2, line 25 - column 3, line 24	1-5, 12, 14-15, 19 13 6-11, 16-18, 20
Y A	WO 97-03758 A2 (MINNESOTA MINING AND MANUFACTURING COMPANY) 06 February 1997 See page 19, lines 19 - 30	1-5, 12-15, 19 6-11, 16-18, 20
Y A	US 4527740 A1 (GUNZEL, JR.; RUDOLPH M. et al.) 09 July 1985 See column 3, lines 37 - 56 and column 6 lines 29 - 52	1-5, 12-15, 19 6-11, 16-18, 20
A	US 2008-0087741 A1 (LE LOUARN et al.) 17 April 2008 See paragraphs [0010] and [0041]	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

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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
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US 2008-0087741 A1	17.04.2008	None	