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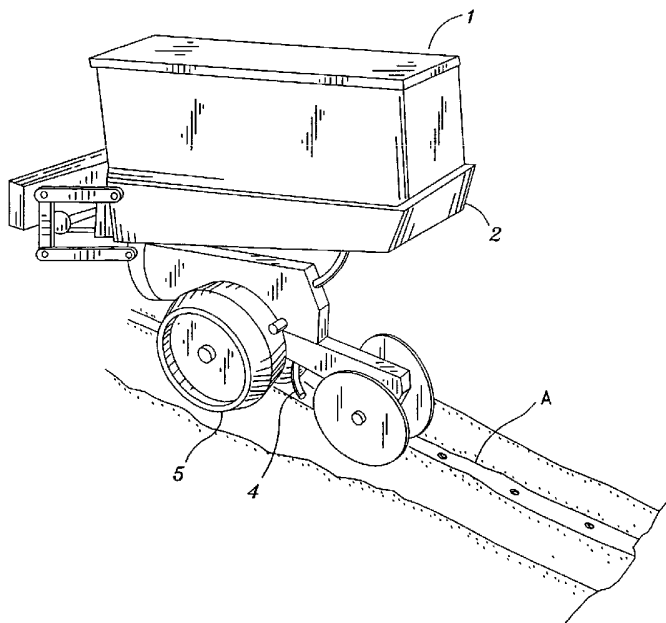
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR CONCENTRATING CHEMICAL GRANULES AROUND A PLANTED SEED



(57) Abstract: A system or method for dispensing seeds and chemicals granules, in which chemical granules are dispensed through a granule tube into a seed dispensing tube, where the granule tube is connected to the seed dispensing tube at a location above a lower opening of the seed dispensing tube, and where the lower opening of the seed dispensing tube is covered with a brush. A seed is dispensed through the seed dispensing tube. The brush holds chemical granules within the seed dispensing tube, and the brush allows a seed and accumulated chemical granules to pass through the lower opening when the seed is dispensed via the seed dispensing tube.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/16991

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01C 7/00, 9/00

US CL : 111/170

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)

U.S. : 111/170, 173, 177-188, 77; 221/211

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)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,895,106 A (BARNES) 23 January 1990, see entire document.	1,5,8,9,11,15, 16,18-22
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Y		2-4,6,7,10,12-14,17
Y	US 2002/0088383 A1 (BARRY ET AL) 11 July 2002, see entire document.	2,6
Y	US 3,581,945 A (SAVAGE) 1 June 1971, see entire document.	10
Y	US 4,779,765 A (NEUMEYER) 25 October 1988, see entire document.	12,13
Y	US 4,541,549 A (HADLEY ET AL.) 17 September 1985, see entire document.	12,14
y	CA 2,248,436 A (ANDERSON ET AL) 22 March 2000, see entire document.	17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:		"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
"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
"B"	earlier application or patent published on or after the international filing date	"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
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"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		

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INTERNATIONAL SEARCH REPORT

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PCT/US04/16991

Continuation of B. FIELDS SEARCHED Item 3:

US-PGPUB, USPAT, EPO, JPO, IBM_TDB

seeds, tubes, conduits, pipes, hoses, overflows, aperture orifice, openings, granules, pellets, chemicals, insecticide, herbicide,
containers, planters, combined, combination