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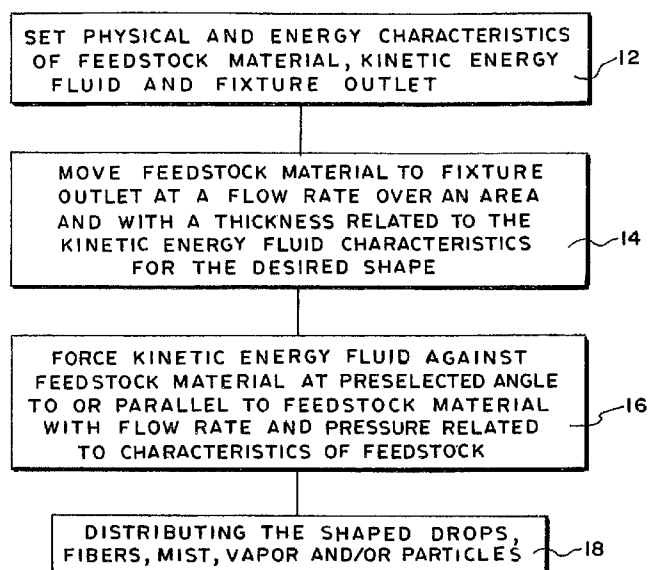
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(54) Title: SYSTEMS FOR CONTROL, USE OF FLUIDS, PARTICLES

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(57) Abstract: The configuration of a feedstock material is controlled by bringing it into contact with at least a first gas moving against it at a location with an area and thickness of the feedstock liquid that forms drops or fibers of a selected size. In one embodiment, drops of agricultural input materials are formed for spraying on agricultural fields. In another embodiment, nanofibers of materials such as chitosan or metals are formed. In another embodiment seeds are planted with gel. In another embodiment particles carrying desired agricultural inputs with modified release characteristics are delivered.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/14518

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: A01C 5/00( 2006.01)

USPC: 111/200,900

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. : 111/200, 900

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)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0024806 A1 (FORET) 6 February 2003 (06.02.03), figures and disclosure.	1-19, 24-36
X	US 4,193,879 A1 (LEACH et al.) 18 March 1980 (18.03.80), figures and disclosure.	20-23
X	US 2003/0197125 A1 (DE SARO et al.) 23 October 2003 (23.10.03), figures and disclosure.	37-39
A	US 2005/0005509 A1 (Tindall et al.) 13 January 2005 (13.01.05), figures and disclosure.	40
X	US 4,574,150 A1 (AUSTIN) 4 March 1986 (04.03.86), disclosure.	41-43
X	US 5,794,550 A1 (CHADWICK) 18 August 1998 (18.08.98), figures and disclosure.	44-47
X	US 4,145,203 A1 (LEVECQUE et al.) 20 March 1979 (20.03.79), figures and disclosure.	48



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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	US 6,444,233 B1 (ARNTZEN et al.) 03 September 2002 (03.09.02), figures and disclosure.	49-63
X	US 5,824,797 A1 (HAZEN) 20 October 1998 (20.10.98), figures and disclosure.	64-67
X	US 4,320,595 A1 (MCCLURE et al.) 23 March 1982 (23.03.82), figures and disclosure.	64-67
X	US 4,820,281 A1 (LAWLER, JR.) 11 APRIL 1989 (11.04.89), figures and disclosure.	68-69
X	US 4,384,537 A1 (DUBRUCQ) 24 May 1983 (24.05.83), figures and disclosure.	70-82
X	US 3,648,631 A1 (FIEDLER et al.) 14 March 1972 (14.03.72), figures and disclosure.	70-82
X	US 6,518,226 B2 (VOLKER et al.) 11 February 2003 (11.02.03), figures and disclosure.	83-91
X	US 4,779,776 A1 (ERAZO et al.) 25 October 1988 (25.10.88), figures and disclosure.	118-139
X	US 5,776,214 A1 (WOOD) 7 July 1998 (07.07.98), figures and disclosure.	140-143
X	US 5,092,267 A1 (HAJEC) 3 March 1992 (03.03.92), figures and disclosure.	144-146
X	US 5,244,123 A1 (BENEDICT) 14 September 1993 (14.09.93), figures and disclosure.	144-146
X	US 2003/0171710 A1 (BASSUK et al.) 11 September 2003 (11.09.03), figures and disclosure.	147-148
X	US 4,596,558 A1 (SMITH et al.) 24 June 1986 (24.06.86), figures and disclosure.	147-148
X	US 5,824,339 A1 (SHIMIZU et al.) 20 October 1998 (20.10.98), figures and disclosure.	149-151