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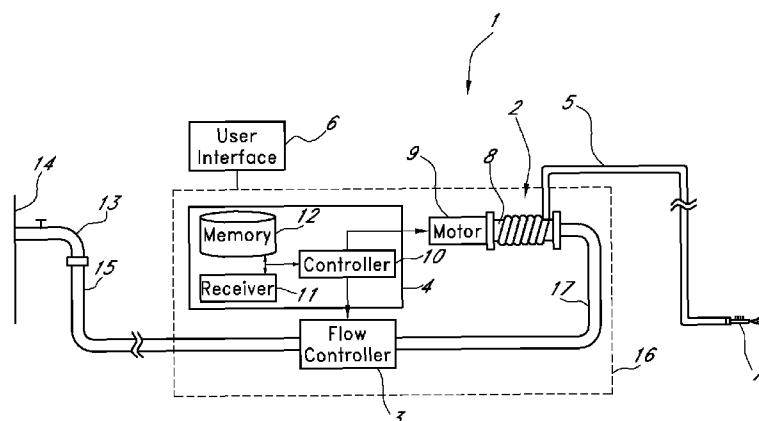


FIG. 1

(57) Abstract: An apparatus (1) includes a handheld element (100, 101) and a remote control (7). The handheld element (100, 101) has a proximal end (102), a distal end (104), and an internal flow conduit. The internal flow conduit (57) extends between the proximal (102) and distal (104) ends. The internal flow conduit (57) is configured to be in fluid communication with a hose (5). The remote control (7) is integrated with the handheld element (100, 101). The remote control (7) is configured to transmit wireless data signals for controlling a plurality of devices associated with the hose. The plurality of devices may include a reel (2), a valve system (3), a valve unit (52), and/or a plurality of valves (46).

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# INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/054777

## A. CLASSIFICATION OF SUBJECT MATTER

INV. B65H75/44 A01G25/16 B05B12/00

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)

B65H B05B AOIG F16K

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 practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 381 962 A (TEAGUE JIM C [US]) 17 January 1995 (1995-01-17)	1,5-7,9, 11,13, 20,21, 23-29, 42,44, 45,48, 50,52, 55-59, 61-65, 74,76
Y	column 1, lines 10-26 column 2, lines 25-32	2-4, 37-41, 46,47
Y	column 4, line 14 - column 6, line 8 column 6, line 48 - column 8, line 21 figures	102-104, 107-112, 117-119,
	-/--	



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

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"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

"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

"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

"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.

"&" document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

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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
		121-124
Y	<p>-----</p> <p>US 2004/231723 AI (HARRINGTON JEFFREY M [US] ET AL) 25 November 2004 (2004-11-25) cited in the appl icati on paragraphs [0003] - [0005] , [0007] , [0008] , [0012] , [0014] , [0020] , [0041 ] - [0043] , [0066] , [0068] - [0072] , [0078] ; cl aim 10; figures</p> <p>-----</p>	2-4 , 37-41 , 46,47
A	<p>US 2006/000936 AI (CAAMANO RAMON A [US] ET AL CAAMANO RAMON ANTHONY [US] ET AL) 5 January 2006 (2006-01-05) cited in the appl ication paragraphs [0027] - [0033]</p>	1, 37,42 , 44, 48, 50,66, 74,78,97
X	paragraphs [0069] - [0072] , [0076] ,	139-143
Y	[0077] , [0082] ; cl aims 8,9; figures	105 , 106, 125
X	paragraphs [0098] , [0099] , [0102] , [0104]	86-91 , 94-96
A	<p>-----</p> <p>US 2006/266868 AI (CAAMANO RAY [US] ET AL) 30 November 2006 (2006-11-30) cited in the appl ication paragraph [0047] ; figures</p> <p>-----</p>	1, 37,42, 44,48, 50,66, 74, 78
X	<p>US 2005/087644 AI (KIM SANG S [KR] ) 28 April 2005 (2005-04-28) paragraph [0064] ; figure 9</p> <p>-----</p>	1-3,9, 37 , 38,48
X	<p>EP 1 060 800 A (LAVORWASH S R L [IT] ) 20 December 2000 (2000-12-20) paragraph [0023] ; figures</p> <p>-----</p>	1,48
A	<p>WO 00/71916 A (NELSON CORP L R [US] ) 30 November 2000 (2000-11-30)</p> <p>-----</p>	1, 37,42, 44,48, 50,66, 74, 78
Y	<p>page 8, lines 9-15 page 9, line 12 - page 10, line 12</p>	102-112 , 117-119, 121-125
X	<p>page 13, line 22 - page 14, line 4 page 15, line 9 - page 18, line 9 figures</p> <p>-----</p>	116
A	<p>US 6 337 635 BI (ERICKSEN KENT C [US] ET AL) 8 January 2002 (2002-01-08) col umn 2, line 43 - col umn 4, line 13 col umn 5, line 4 - col umn 9, line 27; figures</p> <p>-----</p>	102 , 116
	-/--	

# 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
A	<p>WO 99/22589 A (PRO MARK INC [US]; ERICKSEN KENT C [US]; ELZEY JAMES A [US]; HAYES KIM) 14 May 1999 (1999-05-14)  page 6 , lines 6-13  page 7 , lines 2-4  page 11, line 20 - page 12, line 20;  figures</p> <p>-----</p>	102,116
A	<p>EP 0 898 879 A (GARDENA KRESS &amp; KASTNER GMBH [DE]) 3 March 1999 (1999-03-03)  paragraphs [0006], [0008], [0019],  [0022], [0027], [0028], [0036],  [0037]; figures</p> <p>-----</p>	102,116
A	<p>US 2002/166986 A1 (REMBY THOMAS D [US] ET AL) 14 November 2002 (2002-11-14)  figures</p> <p>-----</p>	102,116
X	<p>EP 0 035 892 A (HEATRAE SADIA HEATING LTD [GB]) 16 September 1981 (1981-09-16)  page 9 , line 4 - page 10, line 8 ; figure 7</p> <p>-----</p>	129-131, 137,138
X	<p>US 6 561 481 B1 (FILONCZUK MICHAEL A [US])  13 May 2003 (2003-05-13)  column 7 , lines 9-16; figures</p> <p>-----</p>	1,5-7, 129-131
X	<p>US 7 014 166 B1 (WANG HSIANG HUNG [TW])  21 March 2006 (2006-03-21)  column 3 , line 56  column 6 , lines 15-18; figures</p> <p>-----</p>	129
A	<p>US 2002/096213 A1 (JACOBSEN RON [US] ET AL) 25 July 2002 (2002-07-25)  figures 1,2</p> <p>-----</p>	132

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2008/054777

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. **D** Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-85

Apparatus with a handheld element having an internal flow conduit in fluid communication with a hose and an integrated remote control for transmitting wireless data signals for controlling a device associated with the hose

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2. claims: 86-101

Hose reel with a programmable electronics unit in combination with a motor controller and a flow controller and method of operation thereof

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3. claims: 102-128

Remotely programmable flow control system

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4. claims: 129-138

Flow controller with a first and a second valve in series

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5. claims: 139-143

Hose reel system with a user interface in communication with a motor and valve controller and method of operation thereof

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/054777

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5381962	A	17-01-1995	US 5383605 A	24-01-1995
us 2004231723	A1	25-11-2004	NONE	
us 2006000936	A1	05-01-2006	US 2008164363 A1	10-07-2008
us 2006266868	A1	30-11-2006	NONE	
us 2005087644	A1	28-04-2005	CN 1606911 A	20-04-2005
			JP 2005118030 A	12-05-2005
			KR 20050035346 A	18-04-2005
EP 1060800	A	20-12-2000	IT PD990125 A1	11-12-2000
WO 0071916	A	30-11-2000	AU 7253600 A	12-12-2000
			US 6283139 B1	04-09-2001
us 6337635	B1	08-01-2002	NONE	
WO 9922589	A	14-05-1999	AU 1293499 A	24-05-1999
			US 5921280 A	13-07-1999
EP 0898879	A	03-03-1999	DE 19737721 A1	04-03-1999
			ES 2197400 T3	01-01-2004
US 2002166986	A1	14-11-2002	NONE	
EP 0035892	A	16-09-1981	NONE	
US 6561481	B1	13-05-2003	NONE	
US 7014166	B1	21-03-2006	NONE	
US 2002096213	A1	25-07-2002	NONE	