

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 826 427 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.01.1999 Bulletin 1999/01

(51) Int Cl. 6: B05B 3/16, B05B 3/04,
B05B 1/16, B05B 1/20

(43) Date of publication A2:
04.03.1998 Bulletin 1998/10

(21) Application number: 97306109.6

(22) Date of filing: 11.08.1997

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE

Designated Extension States:
AL LT LV RO SI

(30) Priority: 30.08.1996 GB 9618102
30.08.1996 GB 9618172
30.08.1996 GB 9618173

(71) Applicant: Hozelock Limited
Aylesbury, Buckinghamshire HP17 8JD (GB)

(72) Inventor: Goldney, Dennis
Aylesbury, Buckinghamshire HP22 4QQ (GB)

(74) Representative: Morton, Colin David
Keith W Nash & Co.
Pearl Assurance House
90-92 Regent Street
Cambridge CB2 1DP (GB)

(54) Oscillating sprinklers

(57) An oscillating sprinkler has support structure (1, 2, 3, 4) supporting an impeller assembly (5) and a generally cylindrical spray bar assembly (6). An impeller (8) of the assembly (5) applies an oscillating drive motion to the spray bar assembly (6). The assembly (6) is manually rotatable between two alternative positions in

the first of which a first set (32) of twenty nozzles is in the operation upwardly facing position and in the second of which a second set (33) of two nozzles is in the operative upwardly facing position. A further adjustment is provided by an adjusting ring (36) rotation of which isolates from the water supply a progressive number of nozzles so as to alter the width of spray produced.

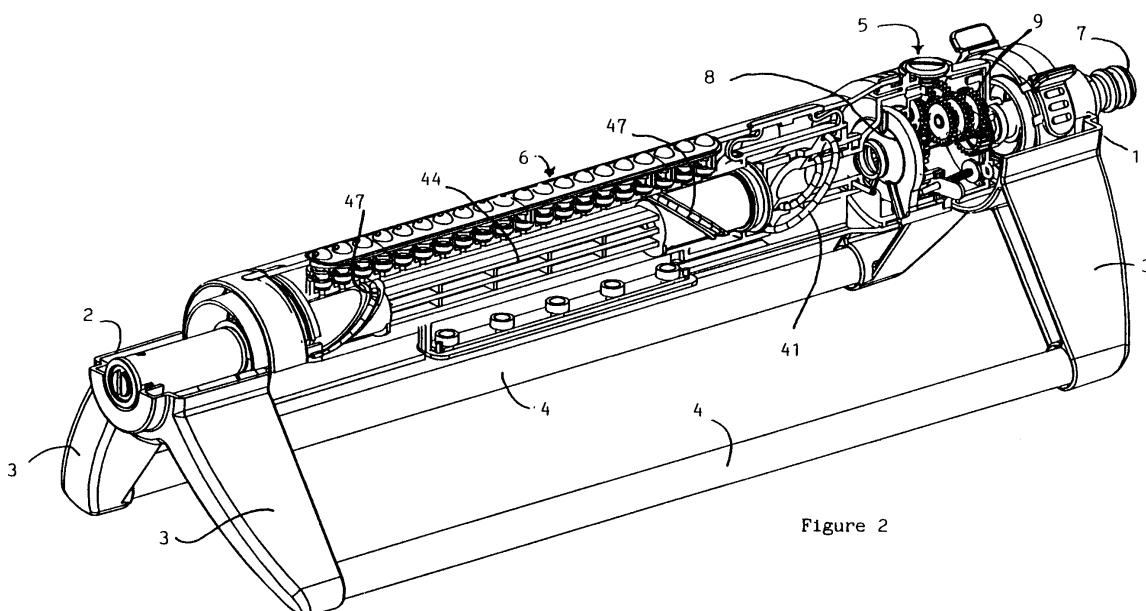


Figure 2



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 30 6109

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
X	US 3 332 624 A (I. R. RINKIEWICH) 25 July 1967 * column 3, line 10 - line 45 * * column 4, line 15 - column 5, line 10; figures * --- US 5 305 956 A (WANG PO H) 26 April 1994 * the whole document *	1-4	B05B3/16 B05B3/04 B05B1/16 B05B1/20						
X		1-4							
TECHNICAL FIELDS SEARCHED (Int.Cl.6)									
B05B									
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>11 August 1998</td> <td>BREVIER F.J.</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	11 August 1998	BREVIER F.J.
Place of search	Date of completion of the search	Examiner							
THE HAGUE	11 August 1998	BREVIER F.J.							
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document							
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document									

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-4



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-4

An oscillating sprinkler comprising a spray bar which is capable of oscillating movement, the spray bar being movable between two operative positions in the first of which water is in use delivered to the first set but not the second set and in the second position of which water is in use delivered to the second set but not to the first set.

2. Claims: 5-8

An oscillating sprinkler comprising an impeller driven by the flow of incoming water, said impeller driving a spray bar with oscillating movements, wherein a by-pass passage allows water to reach the spray bar without passing through the impeller and a valve controls the flow of water through the by-pass passage.

3. Claims: 9-17

An oscillating sprinkler comprising a spray bar having outlet nozzles, wherein adjustable selection means are provided selectively to isolate the water supply to certain of the nozzles in order to vary the number of operative nozzles which deliver water.