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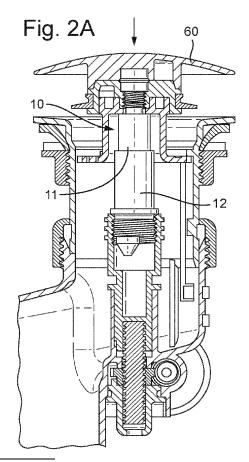
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(54) ASSEMBLY AND DRAIN COVER

(57) In the present invention, an assembly for sealing a drain is provided. The assembly is configured to be operated manually and automatically. The assembly comprising a mechanism comprising a first member and a second member, a sealing module comprising a seal for sealing an aperture, and an automated device. In the present invention, a further assembly for sealing a drain is provided. The assembly comprising a sealing module comprising a seal for sealing an aperture, and a cover for covering a drain.



DOCUMENTS CONSIDERED TO BE RELEVANT

Citation of document with indication, where appropriate,

CO LTD) 10 September 2021 (2021-09-10)

CN 214 169 289 U (JIANGMEN ZHULI PIPE IND

* paragraphs [0001] - [0046]; figures 1-9

of relevant passages



Category

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EUROPEAN SEARCH REPORT

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CLASSIFICATION OF THE APPLICATION (IPC)

INV.

E03C1/23

E03C1/262

Relevant

to claim

1-3,11,

4-10,13

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EPO FORM 1503 03.82 (P04C01)

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	*			
Y	KR 2015 0063993 A 10 June 2015 (2015- * abstract; figures	-06-10)	4,5	
Y	KR 200 356 347 Y1 15 July 2004 (2004- * abstract; figures	-07-15)	6	
Y	CN 109 235 551 A (F LTD) 18 January 201 * paragraph [0042]		7-10	
A	JP 2019 218839 A (N 26 December 2019 (2 * abstract; figures	2019-12-26)	1-13	TECHNICAL FIELDS
A	FR 2 712 165 A1 (WI [FR]) 19 May 1995 (* abstract; figures	'	1-13	SEARCHED (IPC) E03C
A	KR 2020 0109001 A (22 September 2020 * abstract; figures	1-13		
A	WO 2020/128669 A1 ([IT]) 25 June 2020 * abstract; figures	•	1-13	
X Y	WO 2017/220604 A1 (28 December 2017 (2 * paragraphs [0001] *		14,15	
		-/		
	The present search report has	been drawn up for all claims		
	Place of search Date of completion of the search			Examiner
	Munich	24 July 2023	Pos	savec, Daniel
X : par Y : par doo A : teo O : no	CATEGORY OF CITED DOCUMENTS rticularly relevant if taken alone rticularly relevant if combined with ano cument of the same category chnological background in-written disclosure ermediate document	e underlying the invention cument, but published on, or te n the application or other reasons ame patent family, corresponding		



EUROPEAN SEARCH REPORT

Application Number

EP 22 19 8273

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		DOCUMENTS CONSIDE	RED TO BE REL	.EVANT		
	Category	Citation of document with inc of relevant passa			elevant claim	CLASSIFICATION OF THE APPLICATION (IPC)
10	A	DE 36 44 480 A1 (GRC 7 July 1988 (1988-07 * columns 1-4; figur	·-07)	13-	-15	
15	A	EP 3 486 381 A1 (KOH 22 May 2019 (2019-05 * paragraph [0018] *	LER CO [US]) 5-22)	13	-15	
20						
25						
30						TECHNICAL FIELDS SEARCHED (IPC)
35						
40						
45						
2		The present search report has be	<u>'</u>			
50 <u> </u>		Place of search Munich	Date of completion 24 July		Poss	Examiner .vec, Daniel
.82 (P040	C	CATEGORY OF CITED DOCUMENTS		heory or principle unde	erlying the inv	vention
29 29 29 FORM 1503 03.82 (P04C01)	Y : par doc A : tecl O : nor	ticularly relevant if taken alone ticularly relevant if combined with anothe ument of the same category hnological background n-written disclosure rrmediate document	er D:c L:c &:r	ofter the filing date document cited in the a document cited for othe	application er reasons	



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	CLAIMS INCURRING FEES
	The present European patent application comprised at the time of filing claims for which payment was due.
10	Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
15	No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.
20	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:
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	see sheet B
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	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
35	As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
40	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:
45	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:
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	The present supplementary European course report has been drawn up for these parts
55	The present supplementary 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 (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION SHEET B

Application Number EP 22 19 8273

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:

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1. claims: 1-12(completely); 13, 15(partially)

An assembly for sealing a drain, wherein the assembly is configured to be operated manually and automatically, the assembly comprising: a mechanism comprising a first member and a second member, the first member being configured to move a linear direction relative to the second member to move the mechanism between a first configuration, in which the mechanism is in a stable extended state, and a second configuration, in which the mechanism is in a stable compressed state; a sealing module comprising a seal for sealing an aperture, the sealing module being connected to the first member so as to move with the first member in the linear direction; a protrusion configured to limit movement of the first member; and an automated device connected to the second member; wherein during manual operation, the second member is stationary and the first member is moved by a user between a first position, in which the mechanism is in the first configuration, and a second position, in which the mechanism is in the second configuration, and wherein during automatic operation, the automated device is configured to move the second member so as to move the first member from the first position to the second position or from the second position to the first position.

2. claims: 14(completely); 13, 15(partially)

An assembly for sealing a drain comprising: a sealing module comprising a seal for sealing an aperture, the sealing module being configured to connect to a mechanism configured to control movement of the sealing module in a linear direction; and a cover for covering a drain, the cover and sealing module being releasably connected to each other, wherein the cover is configured to automatically detach from the sealing component.

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-07-2023

10	С	Patent document ited in search report		Publication date		Patent family member(s)		Publication date
		N 214169289	ט	10-09-2021	NONE			
15		R 20150063993	A	10-06-2015	NONE			
		R 200356347	Y1	15-07-2004	NONE			
		N 109235551	A	18-01-2019	NONE			
20	JI	2019218839	A	26-12-2019	JP JP	7212931 2019218839		26-01-2023 26-12-2019
		R 2712165	A1	19-05-1995	NONE			
25		R 20200109001	A	22-09-2020	NONE			
	wo	2020128669	A1	25-06-2020	EP US WO	3880896 2022064922 2020128669	A1	22-09-2021 03-03-2022 25-06-2020
30	wo	2017220604	A1	28-12-2017	EP ES PL	3472395 2869327 3472395	т3	24-04-2019 25-10-2021 25-10-2021
35					SE US WO	1650862 2019119891 2017220604	A1 A1	21-12-2017 25-04-2019 28-12-2017
	Di	 E 3644480	A1	07-07-1988	NONE			
40	EI	3486381	A1	22-05-2019	CN CN EP US	109811841 209585191 3486381 2019153710	A U A1	28-05-2019 05-11-2019 22-05-2019 23-05-2019
45								
50								
55	FORM P0459							

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82