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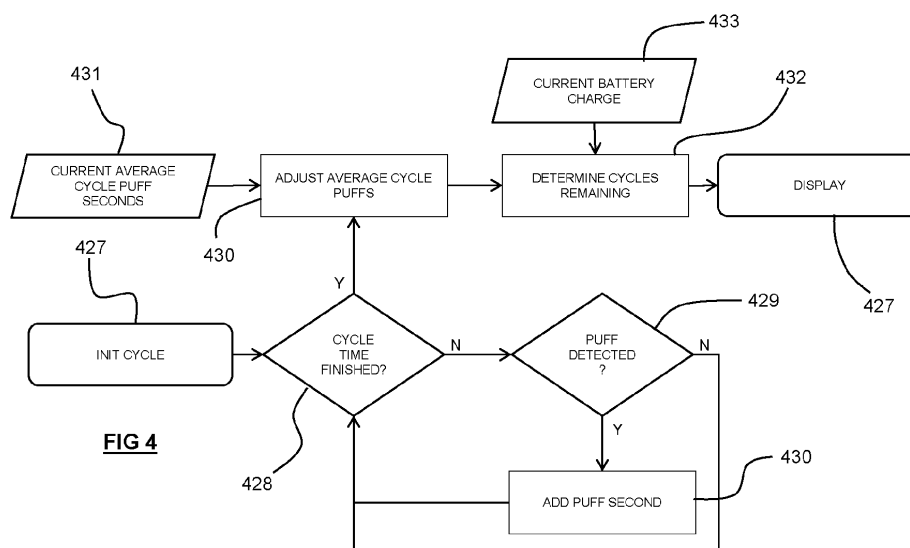
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(54) **SMOKING SUBSTITUTE SYSTEM**

(57) A system having a smoking substitute device comprising a battery configured to energise the smoking substitute device over a plurality of operating cycles and a controller. The controller is configured to identify a puffing pattern characteristic during an operating cycle, de-

tect the amount of energy stored in the battery, and determine the number of remaining operating cycles available to a user based on the puffing pattern characteristic and the amount of stored energy.





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2015/107552 A1 (GODFREY PHILLIPS INDIA LTD [IN]) 23 July 2015 (2015-07-23)	1-8, 10-15	INV.
A	* page 1, line 9 - page 2, line 3 * * page 3, line 8 - page 10, line 3 * * figures 1-12 *	9	A24F47/00
X	WO 2014/066730 A1 (LBS IMP S LLC [US]) 1 May 2014 (2014-05-01)	1, 13	
A	* page 1, line 18 - page 3, line 21 * * page 11, line 3 - page 47, line 19 * * figures 1-15 *	2-12, 14, 15	
X	US 2015/101625 A1 (NEWTON KYLE D [US] ET AL) 16 April 2015 (2015-04-16)	13	
A	* paragraph [0049] * * figures 1-12 *	2-12, 14, 15	
X	US 2014/345635 A1 (RABINOWITZ JOSHUA [US] ET AL) 27 November 2014 (2014-11-27)	1, 13	
A	* paragraph [0104] * * abstract *	2-12, 14, 15	TECHNICAL FIELDS SEARCHED (IPC)
			A24F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 26 July 2023	Examiner Calabrese, Nunziante
CATEGORY OF CITED DOCUMENTS 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		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	

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

EP 23 17 1841

5 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
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26-07-2023

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2015107552 A1	23-07-2015	NONE	
WO 2014066730 A1	01-05-2014	NONE	
US 2015101625 A1	16-04-2015	US RE49196 E	30-08-2022
		US 2015101625 A1	16-04-2015
US 2014345635 A1	27-11-2014	EP 3073846 A2	05-10-2016
		US 2014345635 A1	27-11-2014
		US 2022071292 A1	10-03-2022
		WO 2014190079 A2	27-11-2014