



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 96 51 39

Classification of the application (IPC):
A24F 40/40, A24F 40/46, A24F 40/20

Technical fields searched (IPC):
A24F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y A	US 2019166918 A1 (THORSEN MITCHEL [US] ET AL) 06 June 2019 (2019-06-06) * figures 1, 2, 4, 5b, 5d, 6, 10 * * paragraphs [0029], [0032], [0036], [0050], [0059], [0066] *	1-3, 6-8 1 4, 5
Y A	WO 2019208536 A1 (JAPAN TOBACCO INC [JP]) 31 October 2019 (2019-10-31) * figures 1, 6, 8, 19, 27 * * paragraphs [0036], [0037], [0044], [0056], [0088] - [0090], [0107], [0108] *	1 2-8
Y A	CN 109876253 A (SHENZHEN MOMENTUM INTELLIGENT CONTROL SYSTEM LTD) 14 June 2019 (2019-06-14) * figures 1, 4 * * paragraph [0046] *	1 2-8
A	CN 111972712 A (SHENZHEN MAISHI TECH CO LTD) 24 November 2020 (2020-11-24) * figures 1, 3, 5-7, 9 * & EP 4179901 A1 (SHENZHEN MERIT TECH CO LTD [CN]) 17 May 2023 (2023-05-17) * paragraphs [0032], [0042], [0044] *	1-8

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 04 June 2024	Examiner Schwertfeger, C
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date				
US 2019166918	A1	06-06-2019	AR 109120 A1	31-10-2018			
			AU 2017301840 A1	24-01-2019			
			BR 112019001662 A2	28-05-2019			
			CA 3031709 A1	01-02-2018			
			CL 2019000179 A1	07-06-2019			
			CN 109561733 A	02-04-2019			
			EP 3490394 A1	05-06-2019			
			ES 2808027 T3	25-02-2021			
			HU E051428 T2	01-03-2021			
			JP 6833159 B2	24-02-2021			
			JP 2019531049 A	31-10-2019			
			KR 20190022793 A	06-03-2019			
			KR 20210130256 A	29-10-2021			
			PH 12019500055 A1	07-10-2019			
			PL 3490394 T3	14-12-2020			
			RU 2705639 C1	11-11-2019			
			TW 201808124 A	16-03-2018			
			UA 124467 C2	22-09-2021			
			US 2019166918 A1	06-06-2019			
			WO 2018019786 A1	01-02-2018			
			ZA 201900304 B	23-12-2020			
			WO2019208536	A1	31-10-2019	CN 112040796 A	04-12-2020
						CN 118766158 A	15-10-2024
EP 3785555 A1	03-03-2021						
EP 4133959 A1	15-02-2023						
EP 4447613 A2	16-10-2024						
ES 2965687 T3	16-04-2024						
HU E064346 T2	28-03-2024						
JP 7030237 B2	04-03-2022						
JP 7030238 B2	04-03-2022						
JP 7043674 B2	29-03-2022						
JP 7158621 B2	21-10-2022						
JP 7273232 B2	12-05-2023						
JP 7279271 B2	22-05-2023						
JP 7469283 B2	16-04-2024						
JP 2022028877 A	16-02-2022						
JP 2022028878 A	16-02-2022						
JP 2022028880 A	16-02-2022						
JP 2022033838 A	02-03-2022						
JP 2022033840 A	02-03-2022						
JP 2022153585 A	12-10-2022						
JP 2023012469 A	25-01-2023						
JP 2023058713 A	25-04-2023						
JP 2024084817 A	25-06-2024						



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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 04-06-2024
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		JP WO2019208536 A1	12-02-2021
		KR 20200142583 A	22-12-2020
		KR 20230037695 A	16-03-2023
		KR 20230129633 A	08-09-2023
		KR 20240052890 A	23-04-2024
		PL 4133959 T3	26-02-2024
		PT 4133959 T	07-12-2023
		TW 201944915 A	01-12-2019
		TW 202207823 A	01-03-2022
		TW 202207824 A	01-03-2022
		TW 202211828 A	01-04-2022
		TW 202214136 A	16-04-2022
		TW 202348152 A	16-12-2023
		US 2021045448 A1	18-02-2021
		US 2023189885 A1	22-06-2023
		US 2023389606 A1	07-12-2023
		WO 2019208536 A1	31-10-2019
CN 109876253	A	14-06-2019	NONE
CN 111972712	A	24-11-2020	CN 111972712 A
		EP 4179901 A1	17-05-2023
		JP 2023533282 A	02-08-2023
		KR 20230038147 A	17-03-2023
		WO 2022007410 A1	13-01-2022