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(54) BANKNOTE DRAWER FOR BANKNOTES OR VALUES FOR ATM OR BANCOMAT

(57) It is provided a banknote drawer (1) for banknotes (55) for Bancomat, ATM and similar (50), comprising a safe (51) including a rack (53) for at least one said banknote drawer (1), the banknote drawer (1) defining an inner volume (1c) and comprising: at least a first container (2) disposed in the inner volume (1c) and comprising an internal portion (2a) facing the banknotes (55), and permeable to fluids, at least a second container (22) configured to contain marking fluid, fluid-tight and contained in the first container (2), break-in sensor means (6) suitable for detecting break-in attempts, active

break-in means (4) comprising a plurality of gas generators (40) disposed in proximity to the second container (22) and suitable for breaking, when activated, the second container (22), so as to project the marking fluid onto the banknotes (55), the gas generators (40) being operable by means of an electric current, the banknote drawer (1) the active breaking means (4), comprising a control electronics (41), configured to provide, on command, electric current in sequence to each individual said gas generator (40), so as to so activate said gas generators (40) in sequence.

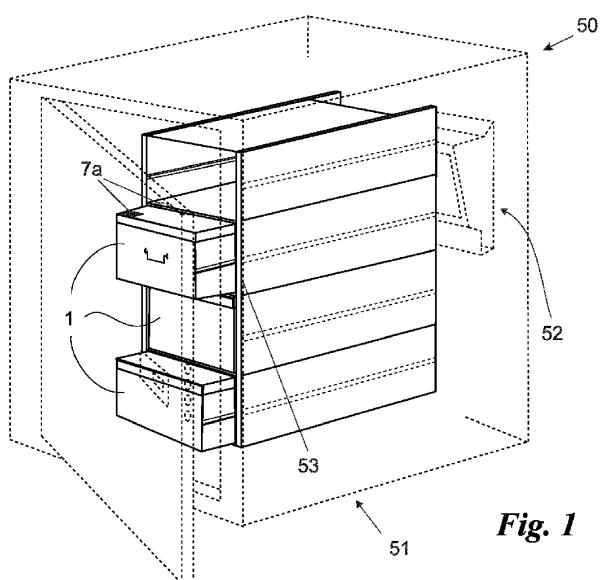


Fig. 1



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)
10	A US 2015/191960 A1 (ROBSON MICHAEL DONALD [ZA]) 9 July 2015 (2015-07-09) * paragraphs [0052] - [0085] * * figures 1-7 * ----- A EP 2 510 506 A1 (SPINNAKER INT LTD [GB]) 17 October 2012 (2012-10-17) * paragraphs [0022] - [0059] * * figures 1-6 * ----- A US 2017/228957 A1 (YOKOTE TAKAMOTO [JP] ET AL) 10 August 2017 (2017-08-10) * paragraphs [0085] - [0294] * * figures 1-3, 17-24 * ----- 	1-9	INV. G07D11/225 G07F19/00 G07D11/125 G07G1/00
15		1-9	
20		1-9	
25			
30			TECHNICAL FIELDS SEARCHED (IPC)
35			G07D
40			
45			
50	The present search report has been drawn up for all claims 1 Place of search The Hague Date of completion of the search 9 September 2022 Examiner Bauer, Sebastian		
55	EPO FORM 1503 03/82 (P04C01) 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
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09-09-2022

10	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
15	US 2015191960 A1	09-07-2015	EP	2880640 A1	10-06-2015
			US	2015191960 A1	09-07-2015
			WO	2014022868 A1	06-02-2014
			ZA	201308221 B	30-07-2014
			ZA	201501355 B	27-01-2016
20	EP 2510506 A1	17-10-2012	DK	2510506 T3	09-01-2017
			EP	2510506 A1	17-10-2012
			ES	2607459 T3	31-03-2017
			GB	2476061 A	15-06-2011
			HR	P20161711 T1	10-02-2017
			PT	2510506 T	20-12-2016
			RU	2012126079 A	20-01-2014
25			WO	2011069803 A1	16-06-2011
30	US 2017228957 A1	10-08-2017	BR	112017000751 A2	14-11-2017
			JP	6539983 B2	10-07-2019
			JP	2016085699 A	19-05-2016
			US	2017228957 A1	10-08-2017
			WO	2016067680 A1	06-05-2016
35					
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