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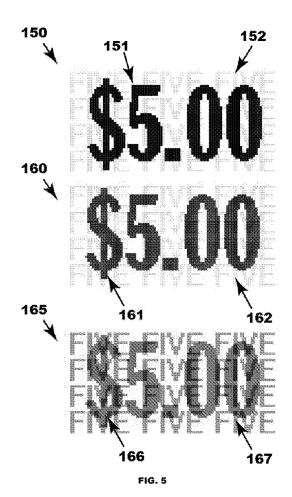
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#### (54) INSTANT TICKET REDUNDANCY VIA MULTI-CHROMATIC INDICIA

(57) A redundantly printed security-enhanced document, printing method and system are provided for ensuring the meaning of the information imparted by variable indicia printed on documents with removable scratch-off coatings by the redundant printing. By printing the variable indicia with multiple colors, redundancy and integrity of the intended indicia is achieved. Additionally, inverted color indicia countermeasures to pinprick attacks are also disclosed. The redundantly printed document, methods and systems enhance the overall appearance of the redundantly printed document, and reduce the consequences possibly resulting from misprinted variable indicia.



**DOCUMENTS CONSIDERED TO BE RELEVANT** 



### **EUROPEAN SEARCH REPORT**

**Application Number** 

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

EP 23 20 7727

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26-01-2024

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	US 5681065 A		NONE	
15		14-06-2012	CA 2761324 A1 US 2012145024 A1	14-06-2012
20				
25				
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35				
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82