

Title (en)

A SECURITY SHEET OR DOCUMENT HAVING ONE OR MORE ENHANCED WATERMARKS

Title (de)

SICHERHEITSPAPIER ODER -DOKUMENT MIT EINEM ODER MEHREREN VERBESSERTEN WASSERZEICHEN

Title (fr)

FEUILLE OU DOCUMENT DE SÉCURITÉ COMPORTANT UN OU PLUSIEURS FILIGRANES AMÉLIORÉS

Publication

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Application

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Abstract (en)

[origin: WO2015084872A2] The invention generally relates to a security sheet or document having one or more enhanced watermarks. In one exemplary embodiment, the inventive security sheet or document is a single-ply paper that is made up of a paper layer including one or more watermarks, and a micro-optic security device {e.g., a patch or thread} that at least partially covers an upper or face portion of the watermark(s). The overlying patch or thread increases the durability of the watermark(s), thereby allowing for the watermark(s) as well as reduced fiber density areas therein to be made larger, and further allowing for the reduced fiber density areas to be made thinner. In a preferred embodiment, the micro-optic security device projects one or more synthetic images that coordinate or link in with the watermark design(s). In a more preferred embodiment, the micro-optic security device offers a machine detectable/readable feature in the form of enhanced IR- brightness, especially when measured in transmission. As will be readily appreciated, the inventive security sheet or document offers greatly improved counterfeit-resistance.

IPC 8 full level

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Opponent : Oberthur Fiduciaire SAS

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- US 2010001508 A1 20100107 - TOMPKIN WAYNE ROBERT [CH], et al
- WO 9509275 A1 19950406 - PORTALS LTD [GB], et al
- GB 1489084 A 19771019 - TULLIS RUSSELL CO LTD
- EP 0091341 A1 19831012 - ARJOMARI PRIoux [FR]
- US 2009301676 A1 20091210 - ROSSET HENRI [FR], et al
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- US 2009001709 A1 20090101 - KRETSCHMAR FRIEDRICH [DE], et al

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ES 2938837 T3 20230417; JP 2016540335 A 20161222; JP 6534679 B2 20190626; KR 102336078 B1 20211208; KR 20160098293 A 20160818;  
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