

Title (en)  
METHOD FOR MARKING PAPER AND PAPERBOARD

Title (de)  
VERFAHREN ZUR MARKIERUNG VON PAPIEREN UND KARTONS

Title (fr)  
PROCEDE POUR MARQUER DES PAPIERS ET DES CARTONS

Publication  
**EP 1089882 B1 20020313 (DE)**

Application  
**EP 99924958 A 19990512**

Priority  
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• EP 9903286 W 19990512

Abstract (en)  
[origin: DE19822605A1] To form a durable marking in the top layer of paper substrates, at least one of the lower layers is treated with laser energy before the top layer is applied. The top layer is opaque using a printing and/or at least a varnish and/or at least a metallizing or combinations of them. A coating is directly under the top paper layer, which has no pigments or contains white or colored pigments. The coating is calendered and can also be varnished. The same process can be used with layers of thicker fiber webs, of natural fibers, to give a cardboard product. The laser energy metallizes the surface to take printing and/or a varnish. The lower layer surface is treated with a carbon dioxide laser. The metallizing process uses copper, aluminum, gold or silver. The marking is a logo, name, trade mark, an image, or a security marking. The paper substrate is in a weight of 40-400 g/m<2>.

IPC 1-7  
**B41M 5/26**; **D21H 25/06**; **D21H 19/82**

IPC 8 full level  
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DOCDB simple family (publication)  
**DE 19822605 A1 19991125**; **DE 19822605 C2 20030417**; AU 4142899 A 19991206; DE 59900991 D1 20020418; EP 1089882 A2 20010411; EP 1089882 B1 20020313; WO 9960208 A2 19991125; WO 9960208 A3 19991229

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