

Title (en)
Process for producing banknotes

Title (de)
Verfahren zur Herstellung von Banknoten

Title (fr)
Procédé pour la fabrication de billets de banque

Publication
EP 0860296 A1 19980826 (EN)

Application
EP 97102773 A 19970220

Priority
EP 97102773 A 19970220

Abstract (en)
Paper printed with ink is covered with a protective coating whose composition essentially consists of water, 15-45 wt% (preferably 20-30 wt%) of at least one emulsified acrylic (co)polymer of the air-drying or UV-curing type, and when using an air-drying acrylic (co)polymer 0.8-2.0 wt% (preferably 1.2-1.6 wt%) of wax (preferably polyethylene wax), in addition to the usual additives. Said composition is applied on printed paper (particularly on thin paper, i.e. 100 g/m² or lower, generally 75 to 95 g/m²) in an amount such as to obtain a dry film weight of 1.5-5 g/m² (preferably 2-3 g/m²) then subjected to air-drying followed where applicable by UV-curing. Acrylic (co)polymers of the UV-curing type are preferred because they provide more resistant coatings.

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B41M 7/00 (2006.01)

CPC (source: EP)
B41M 7/0036 (2013.01); **B41M 7/0045** (2013.01); **B41M 7/0081** (2013.01)

Citation (search report)
• [X] US 4170681 A 19791009 - EDWARDS JOHN R [GB], et al
• [X] EP 0543385 A1 19930526 - DYES JOACHIM LACKFAB GMBH [DE]
• [X] US 5384160 A 19950124 - FRAZZITTA JOSEPH [US]
• [X] DE 4336214 A1 19940428 - SCHWARZ GUENTHER DR [DE]
• [X] DE 3225875 A1 19840112 - BASF AG [DE]

Cited by
CN100414319C; CN105378003A; US2016152858A1; EP3033398A4; US9822276B2; EP1932678A1; US7052762B2; WO02095456A3; EP1629986A1; WO2006021856A1

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