

Title (en)  
High contrast ink jet printing paper

Title (de)  
Papier für Digitaldruck

Title (fr)  
Papier d'impression à jet d'encre à contraste riche

Publication  
**EP 2474667 A1 20120711 (DE)**

Application  
**EP 11150546 A 20110111**

Priority  
EP 11150546 A 20110111

Abstract (en)  
The digitally printed paper comprises a backing paper, which contains a fiber and a mineral filler, a whiteness degree of 100% international organization for standardization, a mottling of less than 3%, an optical color density of greater than 1, a color intensity of greater than 150,000, and a print gloss of more than 15 relative to the gloss of an unprinted paper. The backing paper is provided with a coating application comprising a pigment and binder. The fibers are secondary fibers including the backing paper (90%). The digitally printed paper comprises a backing paper, which contains a fiber and a mineral filler, a whiteness degree of 100% international organization for standardization, a mottling of less than 3%, an optical color density of greater than 1, a color intensity of greater than 150,000, and a print gloss of more than 15 relative to the gloss of an unprinted paper. The backing paper is provided with a coating application comprising a pigment and binder. The fibers are secondary fibers including the backing paper (90%), and the coating application on each side is applied to one or both sides of the backing paper of maximum 2 g/m<sup>2</sup>. A recycling paper fiber and/or rag is used as the secondary fibers. The paper is printed in a pixel size of 5 pixels with a contour sharpness of maximal 220 µm, and has a pick strength of less than 1. An applied ink of an inkjet printer has a wiping resistance of less than 0.03 seconds.

Abstract (de)  
Die Erfindung betrifft ein Papier in Bogen- oder Rollenform für Digitaldruck in Tintenstrahldruckern mit einem Trägerpapier (Rohpapier), das Fasern und mineralischen Füllstoff enthält und das Trägerpapier mit einem Streichauftrag versehen ist, wobei der Streichauftrag Pigment und Bindemittel aufweist. Dieses Papier ist dadurch gekennzeichnet, dass die Fasern des Trägerpapiers zu mindestens 50 % Sekundärfasern sind, und dass maximal 8 g/m<sup>2</sup> Streichauftrag pro Seite ein- oder beidseitig auf das Trägerpapier aufgetragen sind. Die Erfindung betrifft weiterhin die Verwendung dieses Papiers für Inkjet-Drucker mit einer Druckgeschwindigkeit von mehr als 150 Seiten pro Minute.

IPC 8 full level  
**D21H 19/36** (2006.01)

CPC (source: EP)  
**B41M 5/502** (2013.01); **D21H 17/63** (2013.01); **D21H 19/36** (2013.01); **B41M 5/5218** (2013.01); **B41M 5/5236** (2013.01); **B41M 5/5254** (2013.01); **B41M 2205/34** (2013.01); **D21H 11/14** (2013.01); **D21H 19/84** (2013.01)

Citation (applicant)  
• EP 0785307 A2 19970723 - HAINDL PAPIER GMBH [DE]  
• DE 19745082 A1 19990415 - HAINDL PAPIER GMBH [DE]

Citation (search report)  
• [X] DE 10307494 A1 20040902 - WEIPATECH GMBH [DE]  
• [X] DE 102008057795 A1 20100520 - BURKHART HUBERTUS [DE], et al  
• [X] DE 4305134 A1 19940825 - FELDMUEHLE AG STORA [DE]  
• [X] EP 0685594 A1 19951206 - JUJO PAPER CO LTD [JP], et al  
• [A] US 2006225854 A1 20061012 - ONO HIROSHI [JP], et al  
• [A] US 2004177938 A1 20040916 - ONO HIROSHI [JP], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2474667 A1 20120711**

DOCDB simple family (application)  
**EP 11150546 A 20110111**