

Title (en)  
INK-JET PRINTING MEDIA

Title (de)  
TINTENSTRAHLDRUCKMEDIUM

Title (fr)  
SUPPORT D'IMPRESSION A JETS D'ENCRE

Publication  
**EP 0866749 A4 19981209 (EN)**

Application  
**EP 96944232 A 19961206**

Priority  

- US 9619353 W 19961206
- US 57317695 A 19951215
- US 68348696 A 19960718
- US 75799296 A 19961127

Abstract (en)  
[origin: WO9722476A2] A printing medium which may be ink jet printed to provide images of improved quality comprises a substrate having at least one surface, and a substantially nonporous coating on the surface wherein the coating comprises transparent, colorless alumina monohydroxide and water-soluble organic polymer, and wherein the water-soluble organic polymer comprises water-soluble cellulosic organic polymer and water-soluble noncellulosic organic polymer. A printing medium which may be ink jet printed eliminates or reduces coalescence of a wide variety of ink jet printing inks and often provides fast drying times. This embodiment comprises: (a) a substrate having at least one surface; and (b) a coating on the surface wherein the coating comprises: (1) a binder comprising organic polymer, wherein poly(ethylene oxide) having a weight average molecular weight in the range of from 100,000 to 3,000,000 constitutes at least 20 percent by weight of the organic polymer; and (2) discrete particles dispersed in the binder, which particles have a number average particle size in the range of from 1 to 500 nanometers.

IPC 1-7  
**B41M 5/00**

IPC 8 full level  
**B41M 5/52** (2006.01); **C09D 101/28** (2006.01); **B41M 5/00** (2006.01); **B41M 5/50** (2006.01)

CPC (source: EP)  
**B41M 5/52** (2013.01); **C09D 101/284** (2013.01); **B41M 5/506** (2013.01); **B41M 5/508** (2013.01); **B41M 5/5218** (2013.01); **B41M 5/5236** (2013.01); **B41M 5/5245** (2013.01); **B41M 5/5254** (2013.01)

Citation (search report)  

- [X] WO 9302148 A1 19930204 - UNIROYAL CHEM CO INC [US]
- [X] EP 0199874 A1 19861105 - MEAD CORP [US]
- [X] WO 9511270 A1 19950427 - VISTA CHEMICAL [US]
- [A] WO 8806532 A1 19880907 - AM INT [US]
- [A] US 4102845 A 19780725 - SCHRODER GEORG, et al
- [A] EP 0524626 A1 19930127 - ASAHI GLASS CO LTD [JP]
- See references of WO 9722476A2

Designated contracting state (EPC)  
CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**WO 9722476 A2 19970626; WO 9722476 A3 19971016; AU 1409397 A 19970714; EP 0866749 A2 19980930; EP 0866749 A4 19981209**

DOCDB simple family (application)  
**US 9619353 W 19961206; AU 1409397 A 19961206; EP 96944232 A 19961206**