Title (en)

LIGHT EMITTING APPARATUS AND METHOD FOR CURING INKS, COATINGS AND ADHESIVES

Title (de)

LICHTEMITTIERENDE VORRICHTUNG UND VERFAHREN ZUM HÄRTEN VON TINTEN, BESCHICHTUNGEN UND KLEBSTOFFEN

Title (fr)

APPAREIL ÉMETTEUR DE LUMIÈRE ET PROCÉDÉ POUR NETTOYER ENCRES, REVÊTEMENTS ET ADHÉSIFS

Publication

EP 1706432 A4 20080903 (EN)

Application

EP 04704792 A 20040123

Priority

US 2004001594 W 20040123

Abstract (en)

[origin: WO2005116089A1] A UV curing apparatus and method is provided for enhancing the distribution and application of UV light to photoinitiators in a UV curable ink, coating or adhesive, and comprises UV LED assemblies mounted on a panel (68) in a first row with the UV LED assemblies spaced from adjacent UV LED assemblies. At least one second row of a plurality of UV LED assemblies next to the first row, but with assemblies positioned adjacent the spaces between adjacent UV LED assemblies in the first row thereby to stagger the second row assemblies from those of the first row. UV curable products that are in or on a web (74) can be conveyed (100) past the UV LED assemblies for effective UV curing using rollers (94, 96, 98), wiper blade (108), mechanisms for causing the panel to move, and an injection tube (104) for injecting gas in the UV curing area.

IPC 8 full level

B41J 11/00 (2006.01); **C08F 2/50** (2006.01); **C08J 7/04** (2006.01); **C08J 7/18** (2006.01); **C09D 11/10** (2006.01); **H01L 27/15** (2006.01); **H01L 31/12** (2006.01); **H01L 33/00** (2006.01)

CPC (source: EP US)

B41J 11/00214 (2021.01 - EP US); **C09D 11/101** (2013.01 - EP US)

Citation (search report)

- [E] WO 2004081475 A2 20040923 - CON TROL CURE INC [US]
- See references of WO 2005116089A1

Designated contracting state (EPC)

AT DE GB IE NL

DOCDB simple family (publication)

WO 2005116089 A1 20051208; CA 2553521 A1 20051208; CN 1910206 A 20070207; EP 1706432 A1 20061004; EP 1706432 A4 20080903

DOCDB simple family (application)

US 2004001594 W 20040123; CA 2553521 A 20040123; CN 200480040787 A 20040123; EP 04704792 A 20040123