

Title (en)
Drum photoconductor.

Title (de)
Photoleitfähige Trommel.

Title (fr)
Tambour photoconducteur.

Publication
EP 0415865 A1 19910306 (EN)

Application
EP 90480106 A 19900718

Priority
US 39963789 A 19890828

Abstract (en)
A drum photoconductor for use in a electrophotographic laser printer is disclosed. The photoconductor comprises a hollow inner aluminum core whose cylindrical outer surface is prepared to provide a nonspecular reflecting surface of controlled roughness. A thin barrier/adhesive layer is placed on the prepared core surface by a dip coating process. The barrier/adhesive layer comprises an epoxy resin, or a phenoxy resin that crosslinks in the presence of heat, such layers being insoluble in amine solvents. An OHSQ charge generation layer is dip coated onto the heat cured barrier/adhesive layer using of a coating ink that contains amine solvents. Dip coating of the charge generation layer includes the use of air flow control means to control the manner in which the amine solvents leave the coating ink as the drum is withdrawn from the bulk supply of coating ink. A DEH charge transport layer is dip coated onto the heat cured charge generation layer.

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G03G 5/05; G03G 5/14

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CPC (source: EP)
G03G 5/0525 (2013.01); **G03G 5/142** (2013.01)

Citation (search report)
• [Y] GB 2156089 A 19851002 - CANON KK
• [YD] DE 2635887 A1 19770324 - IBM
• [A] EP 0213836 A2 19870311 - CANON KK [JP]
• [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 32 (P-817)(3380) 25 January 1989, & JP-A-63 229461 (FUJITSU LTD.) 26 September 1988,

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