

Title (en)  
MELT EXTRUDED MATERIAL SUITABLE FOR FORMING TRANSFER LAYER OF PHOTSENSITIVE UNIT OF IMAGE FORMING DEVICE

Title (de)  
SCHMELZEXTRUSIONSMATERIAL GEEIGNET ZUM BILDEN DER ÜBERTRAGUNSSCHICHT EINER PHOTOEMPFLINDLICHE EINHEIT VON EINER BILDERZEUGUNGSVORRICHTUNG

Title (fr)  
MATERIAU EXTRUDE PAR FUSION SE PRETANT A L'ELABORATION DE LA COUCHE DE TRANSFERT D'UNE UNITE PHOTSENSIBLE DE DISPOSITIF DE FORMATION D'IMAGE

Publication  
**EP 1079282 A4 20041117 (EN)**

Application  
**EP 99917146 A 19990426**

Priority  
• JP 9902194 W 19990426  
• JP 13081198 A 19980513

Abstract (en)  
[origin: EP1079282A1] To provide the melt-extrudable material suitable for forming a transfer layer of photosensitive part of image forming device, particularly the melt-extrudable material comprising a fluorine-containing resin which is excellent in non-sticking property, smoothness and strength and is easy in controlling of volume resistivity, and a transfer belt produced by using the melt-extrudable material. The melt-extrudable material is suitable for forming a transfer layer of photosensitive part of image forming device and comprises a composition comprising (A) a filler and (B) a fluorine-containing thermoplastic resin; at least a part of the filler being fluorinated and the composition giving a coating film having a surface volume resistivity of from  $10^{-8}$  to  $10^{-13}$   $\Omega \cdot \text{cm}$ , a water contact angle of not less than 96 degrees, a surface roughness Ra of not more than 0.5  $\mu\text{m}$  and a tensile strength of not less than 400  $\text{kgf/cm}^2$  at 25 DEG C.

IPC 1-7  
**G03G 15/16**

IPC 8 full level  
**G03G 15/16** (2006.01)

CPC (source: EP KR)  
**G03G 15/16** (2013.01 - KR); **G03G 15/1685** (2013.01 - EP)

Citation (search report)  
• [PX] EP 0854398 A2 19980722 - XEROX CORP [US]  
• [X] DATABASE WPI Section Ch Week 199813, Derwent World Patents Index; Class A89, AN 1998-134846, XP002297941 & US 5849399 A 19981215 - LAW KOCK-YEE [US], et al  
• See references of WO 9959033A1

Cited by  
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Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1079282 A1 20010228; EP 1079282 A4 20041117**; JP 3743288 B2 20060208; KR 20010034795 A 20010425; WO 9959033 A1 19991118

DOCDB simple family (application)  
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