

Title (en)

Semiconductive polymer member, method for making the same, and device comprising the member.

Title (de)

Halbleitfähiges Polymerelement, Verfahren zur Herstellung desselben und Vorrichtung damit.

Title (fr)

Élément polymère semiconducteur, méthode de fabrication et dispositif le comprenant.

Publication

EP 0684613 A3 19960626 (EN)

Application

EP 95303674 A 19950530

Priority

- JP 13818694 A 19940527
- JP 18774594 A 19940718
- JP 17456794 A 19940726
- JP 20601194 A 19940808
- JP 20600994 A 19940808

Abstract (en)

[origin: EP0684613A2] A semiconductive polymer member is provided which comprises a semiconductive polymer composition, a polymer matrix and a conductive agent so that the member has an electric resistance ranging from 1×10^{-5} OMEGA .cm to $1 \times 10^{+0}$ OMEGA .cm when measured under conditions of a temperature of from 15 to 32.5 DEG C, a relative humidity of from 10 to 85% and a measuring potential of from 10 to 5000 V and has a positional variation in the electric resistance of not larger than +/-20%. In addition, the electric resistance determined under conditions of a temperature of 15 DEG C and a relative humidity of 10% is not larger than 50 times an electric resistance determined under conditions of a temperature of 32.5 DEG C and a relative humidity of 85%. When the semiconductive polymer member is in the form of a roller, such a roller is suitable for use in electrophotography especially when it is employed in combination with a power supply for transfer devices, or a constant current or voltage power supply.

IPC 1-7

H01B 1/12; G03G 15/08

IPC 8 full level

G03G 15/02 (2006.01); **G03G 15/08** (2006.01); **G03G 15/16** (2006.01); **H01B 1/12** (2006.01)

CPC (source: EP)

G03G 15/0233 (2013.01); **G03G 15/0818** (2013.01); **G03G 15/1685** (2013.01); **H01B 1/121** (2013.01)

Citation (search report)

- [E] EP 0657896 A1 19950614 - XEROX CORP [US]
- [A] WO 8809350 A1 19881201 - CREST FOAM CORP [US]
- [A] DATABASE WPI Section Ch Week 8111, Derwent World Patents Index; Class A85, AN 81-17953D, XP002001530
- [AP] PATENT ABSTRACTS OF JAPAN vol. 018, no. 500 (P - 1802) 19 September 1994 (1994-09-19)

Cited by

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