

THIS SHEET HAS BEEN
REPLACED

IPDS Copy
CE 1519 3G 9607003-2



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number: **0 531 990 A1**

EUROPEAN PATENT APPLICATION

Application number: **92115490.2**

Int. Cl.⁵: **G03G 9/087**

Date of filing: **10.09.92**

Priority: **11.09.91 JP 231646/91**
04.03.92 JP 81467/92
22.04.92 JP 127984/92

Date of publication of application:
17.03.93 Bulletin 93/11

Designated Contracting States:
DE FR GB IT NL

Applicant: **CANON KABUSHIKI KAISHA**
30-2, 3-chome, Shimomaruko, Ohta-ku
Tokyo(JP)

Inventor: **Tanikawa, Hirohide, c/o Canon**
Kabushiki Kaisha
3-30-2 Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Kawakami, Hiroaki, c/o Canon**
Kabushiki Kaisha
3-30-2 Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Fujiwara, Masatsugu, c/o Canon**
Kabushiki Kaisha
3-30-2 Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Jinbo, Masashi, c/o Canon**
Kabushiki Kaisha
3-30-2 Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Onuma, Tsutomu, c/o Canon**
Kabushiki Kaisha
3-30-2 Shimomaruko
Ohta-ku, Tokyo(JP)

Representative: **Tiedtke, Harro, Dipl.-Ing. et al**
Patentanwälte Tiedtke-Bühling- Kinne &
Partner Bavariaring 4 Postfach 20 24 03
W-8000 München 2 (DE)

This Sheet Has Been Replaced



Toner for developing electrostatic image and heat-fixing method.

A toner for developing electrostatic images is prepared from a binder resin and a hydrocarbon wax. The toner is provided with improved fixability and anti-offset characteristic by controlling the thermal characteristic of the hydrocarbon wax so as to provide a DSC (differential scanning calorimeter) curve, showing an onset temperature of heat absorption in the range of 50 - 110 °C and at least one heat absorption peak P1 in the range of 70 - 130 °C giving a peak temperature T_{P1} on temperature increase, and showing a maximum heat evolution peak temperature in the range of $T_{P1} \pm 9$ °C on temperature decrease. Correspondingly, the toner provides a DSC curve showing a rising temperature of heat absorption of at least 80 °C, an onset temperature of heat absorption of at most 105 °C and a heat absorption peak temperature in the range of 100 - 120 °C, respectively on temperature increase, and showing a heat evolution peak temperature in the range of 62 - 75 °C and a heat evolution peak intensity ratio of at least 5×10^{-3} on temperature decrease.

EP 0 531 990 A1

WAX A3 (INVENTION) ON HEATING

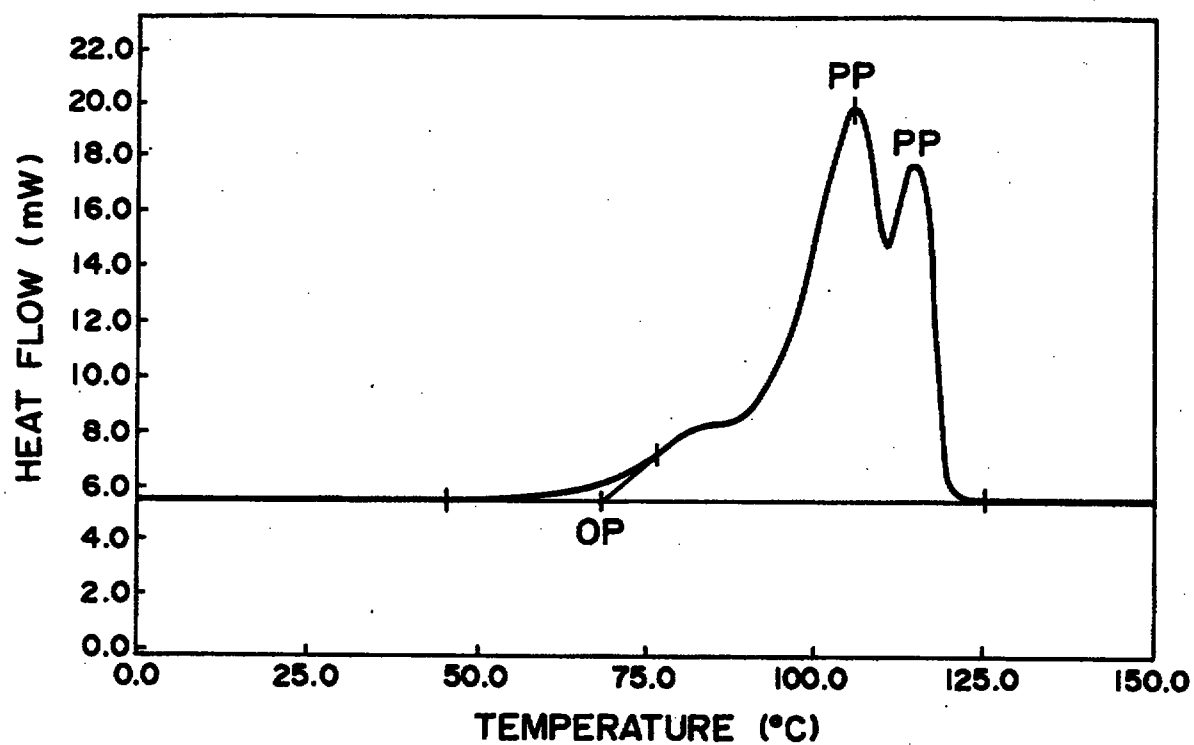


FIG. 1

This Sheet Has Been Replaced

