

Title (en)

Electrophotographic apparatus and method of detecting opening or closing of a cover of the apparatus

Title (de)

Elektrophotographisches Gerät und Verfahren zur Detektion des Öffnens oder Schliessens eines Deckels des Gerätes

Title (fr)

Appareil électrophotographique et méthode de détection de l'ouverture et de la fermeture d'un couvercle de celui

Publication

EP 1246027 A3 20021009 (EN)

Application

EP 02006647 A 20020326

Priority

- JP 2001086611 A 20010326
- JP 2001175610 A 20010611
- JP 2002046268 A 20020222

Abstract (en)

[origin: EP1246027A2] A density detection value detected by the toner density detection sensor (23) before the door (20) is opened and a density detection value detected by the toner density detection sensor (23) after the door (20) is opened and closed are compared with each other, and determination is made on the basis of a difference between the detection values about whether or not the closed position of the door after the opening and closing operations of the door is in a regular closing position. Accordingly, since an incompletely closed state of the door is detected by the toner density detection sensor (23), various troubles due to the incompletely closed state of the door can be prevented from occurring. When the door has a reflecting plate a registration sensor can also be used.

IPC 1-7

G03G 15/08; **G03G 21/16**; **G03G 15/00**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] US 6144811 A 20001107 - OHORI MAYUMI [JP], et al
- [A] EP 1014225 A2 20000628 - CANON KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 500 (M - 891) 10 November 1989 (1989-11-10)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 517 (P - 962) 20 November 1989 (1989-11-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 162 (P - 1029) 29 March 1990 (1990-03-29) & JP H11282223 A 19991015 - RICOH KK & JP 2661941 B2 19971008

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KR20040074335A; EP2148246A3; US8270863B2

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