

Title (en)

Safety device for a toner image fixing device

Title (de)

Sicherheitsvorrichtung für eine Tonerbildfixiervorrichtung

Title (fr)

Dispositif de sécurité pour un dispositif de fixation d'une image de toner

Publication

**EP 0783142 B8 20030625 (EN)**

Application

**EP 96120850 A 19961223**

Priority

JP 33884495 A 19951226

Abstract (en)

[origin: EP0783142A2] Energy saving of fixing unit having a low heat capacity by reducing a loss of heat transferring from a temperature sensing element to temperature sensing means and by improving response of the safety device. A heat-insulating member (15) is formed to cover a temperature fuse (14) being a temperature sensing element and a heat-conductive filler or heat-conductive elastic member is formed between the temperature fuse (14) and a sliding sheet (17). A temperature sensing means (3) having the temperature sensing element abuts on a fixing roller (1) through a sliding sheet (17) interposed therebetween. A contacting portion of the temperature sensing means with the heat-insulating member (15) and the filler or elastic member (16) has a curved contacting surface fitting a cylindrical surface of the fixing roller (1). The heat-insulating member (15) has a groove or a slit for engaging with a protrusion of the temperature sensing element to be secured to the heat-insulating member. <IMAGE>

IPC 1-7

**G03G 15/20**

IPC 8 full level

**G03G 21/00** (2006.01); **G03G 15/20** (2006.01)

CPC (source: EP US)

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Cited by

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**EP 0783142 A2 19970709**; **EP 0783142 A3 19980722**; **EP 0783142 B1 20030312**; **EP 0783142 B8 20030625**; DE 69626618 D1 20030417; DE 69626618 T2 20040212; JP H09179439 A 19970711; US 5890031 A 19990330

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