

Title (en)

Heater and image heating device utilizing the same

Title (de)

Heizelement und dieses Element verwendende Bildheizvorrichtung

Title (fr)

Élément chauffant et dispositif de chauffage d'une image utilisant ledit élément

Publication

**EP 0632344 B1 19980729 (EN)**

Application

**EP 94108189 A 19940527**

Priority

- JP 12710293 A 19930528
- JP 13353693 A 19930603
- JP 13617193 A 19930607
- JP 19217793 A 19930803
- JP 27089193 A 19931028

Abstract (en)

[origin: EP0632344A2] An image heating device having a heater and a plastic film contacting the heater on a face and contacting the unfixed toner image on the recording sheet on the other face, thus transmitting heat from the heater to the toner image through the plastic film, is provided with a hard carbon film, a hydrogenated amorphous carbon film or a diamond-like carbon film at the interface between the heater and the plastic film in order to improve the sliding performance and durability. <IMAGE>

IPC 1-7

**G03G 15/20**; H05B 3/26

IPC 8 full level

**G03G 15/20** (2006.01)

CPC (source: EP)

**G03G 15/2003** (2013.01); **G03G 15/2064** (2013.01)

Cited by

US6031970A; US6078027A; GB2352247A; SG91866A1; EP1052307A3; US6049064A; EP0658827A3; EP0838734A3; US8055173B2; US6571865B1; US9257730B2; US7917073B2; US8145112B2; WO9709593A1; US7165830B2; US9909677B2; US11209760B1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0632344 A2 19950104**; **EP 0632344 A3 19960117**; **EP 0632344 B1 19980729**; CN 1100252 A 19950315; CN 1112612 C 20030625; DE 69412007 D1 19980903; DE 69412007 T2 19990211

DOCDB simple family (application)

**EP 94108189 A 19940527**; CN 94105572 A 19940527; DE 69412007 T 19940527