

Title (en)  
Heat fixing apparatus.

Title (de)  
Hitzefixiergerät.

Title (fr)  
Appareil de fixation par chaleur.

Publication  
**EP 0642064 A3 19950906 (EN)**

Application  
**EP 94306493 A 19940902**

Priority  
JP 22002293 A 19930903

Abstract (en)  
[origin: EP0642064A2] A heat-fixing apparatus for use in an electrophotographic apparatus such as a copying machine. It comprises a substrate roller formed of a material having a heat conductivity of 0.7 kcal/mhk or less, a resistant heat-generating layer provided on the surface of the roller, and a surface coat layer provided on the resistance heat-generating layer. This heat-fixing apparatus has a very high heat efficiency, and can perform heat-fixing of a toner at a low consumption of electric power. In addition, since the heating is carried out rapidly, the rising time is markedly shortened, and it is not necessary to perform pre-heating. In this respect, too, the electric power to be consumed is decreased. Furthermore, since it is a roller-type fixing method, it can effectively cope with high-speed copying. Moreover, because the apparatus has a large strength, the apparatus can be effectively made light in weight. <IMAGE>

IPC 1-7  
**G03G 15/20**

IPC 8 full level  
**G03G 15/20** (2006.01); **H05B 3/00** (2006.01)

CPC (source: EP KR)  
**G03G 15/2053** (2013.01 - EP KR)

Citation (search report)

- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 316 (P - 900) 18 July 1989 (1989-07-18)
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 611 (P - 1641) 10 November 1993 (1993-11-10)
- [AP] PATENT ABSTRACTS OF JAPAN vol. 018, no. 546 (P - 1814) 18 October 1994 (1994-10-18)
- [AP] PATENT ABSTRACTS OF JAPAN vol. 018, no. 387 (P - 1773) 20 July 1994 (1994-07-20)

Cited by  
US6026273A; US6137985A; US6154629A; EP0855630A3

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0642064 A2 19950308**; **EP 0642064 A3 19950906**; CN 1115047 A 19960117; JP H0772752 A 19950317; KR 950008133 A 19950417; TW 298887 U 19970221

DOCDB simple family (application)  
**EP 94306493 A 19940902**; CN 94115672 A 19940902; JP 22002293 A 19930903; KR 19940022051 A 19940902; TW 85211800 U 19940831