

Title (en)  
Fixing apparatus for an image forming apparatus

Title (de)  
Fixiergerät für ein Bilderzeugungsgerät

Title (fr)  
Appareil de fixation pour un appareil de formation d'images

Publication  
**EP 0785487 A3 19980325 (EN)**

Application  
**EP 97100465 A 19970114**

Priority

- JP 550796 A 19960117
- JP 2912896 A 19960216
- JP 4611396 A 19960304
- JP 6069896 A 19960318
- JP 32823996 A 19961209
- JP 34732396 A 19961226
- JP 34732496 A 19961226
- JP 34732596 A 19961226

Abstract (en)  
[origin: EP0785487A2] A fixing apparatus has heaters (2, 3) to provide heat to fix a toner image on print paper. The heaters are intermittently activated to maintain the fixing apparatus at a substantially constant temperature. The heaters are activated by a predetermined voltage (Vf). Deactivation of the heaters (2, 3) is controlled by providing a low voltage immediately before the heaters are completely turned off so that a rate of change in a current flowing to the heaters is reduced. A timing of deactivation of each of the heaters may be controlled so that a start time of deactivation of the heaters (2, 3) differs from each other. The heaters (3) excluding at least one (2) of the heaters (2, 3) may be maintained to be deactivated when the fixing apparatus is in a predetermined operational state such as a waiting state or pre-heating state. <IMAGE>

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

IPC 8 full level  
**G03G 15/20** (2006.01)

CPC (source: EP)  
**G03G 15/2003** (2013.01); **G03G 15/2039** (2013.01); **G03G 2215/0078** (2013.01)

Citation (search report)

- [A] EP 0564420 A2 19931006 - CANON KK [JP]
- [A] US 4994852 A 19910219 - MATSUUCHI YASUYUKI [JP], et al
- [A] US 5329343 A 19940712 - SAITO HIDEO [JP]
- [PA] EP 0729079 A2 19960828 - CANON KK [JP]
- [DA] PATENT ABSTRACTS OF JAPAN vol. 016, no. 476 (P - 1430) 5 October 1992 (1992-10-05)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 018, no. 621 (P - 1832) 25 November 1994 (1994-11-25)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 353 (P - 1086) 31 July 1990 (1990-07-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 009, no. 232 (P - 389) 18 September 1985 (1985-09-18)
- [X] PATENT ABSTRACTS OF JAPAN vol. 009, no. 232 (P - 389) 18 September 1985 (1985-09-18)

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 0785487 A2 19970723; EP 0785487 A3 19980325; EP 0785487 B1 20031126**; DE 69726323 D1 20040108; DE 69726323 T2 20040527; DE 69733288 D1 20050616; DE 69733288 T2 20060126; EP 1282015 A2 20030205; EP 1282015 A3 20030319; EP 1282015 B1 20050511; ES 2210406 T3 20040701; ES 2240637 T3 20051016

DOCDB simple family (application)  
**EP 97100465 A 19970114**; DE 69726323 T 19970114; DE 69733288 T 19970114; EP 02025038 A 19970114; ES 02025038 T 19970114; ES 97100465 T 19970114