

Title (en)  
Fixing device

Title (de)  
Fixiervorrichtung

Title (fr)  
Dispositif de fixation

Publication  
**EP 0833223 A3 19981230 (EN)**

Application  
**EP 97114388 A 19970820**

Priority  
JP 25565196 A 19960927

Abstract (en)  
[origin: EP0833223A2] A heat-resistant sheet, which has at least one slash alone formed therein, is provided between a fixing roller and a pressure member. The heat-resistant sheet, which has a thickness of 300  $\mu$ m, is coated with a synthetic resin material having superior toner-releasing and heat-resisting properties, or incorporates such a synthetic resin material inside thereof. Here, a recording material is transported between the fixing roller and the heat-resistant sheet. As the surface temperature of the fixing roller rises, the heat-resistant sheet starts expanding gradually, causing its surface to be warped. However, unless the temperature of the fixing roller exceeds a set temperature, the expansion of the heat-resistant sheet and its surface deflection are all absorbed by the slash. Therefore, it is possible to keep an optimal nip width while maintaining a proper applied pressure of the pressure member, without the necessity of using a heat-releasing device or increase the thickness of the heat-resistant sheet. As a result, a superior fixing operation is available by using the heat-resistant sheet having the slash alone. <IMAGE>

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

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

CPC (source: EP)  
**G03G 15/2028** (2013.01); **G03G 15/2064** (2013.01)

Citation (search report)

- [A] DE 19600211 A1 19960905 - SHARP KK [JP]
- [PX] EP 0770935 A2 19970502 - SHARP KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 485 (P - 1605) 2 September 1993 (1993-09-02)
- [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 007 31 July 1996 (1996-07-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 358 (P - 1087) 2 August 1990 (1990-08-02)

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