

Title (en)
Fixing device

Title (de)
Fixiervorrichtung

Title (fr)
Dispositif de fixation

Publication
EP 0770935 A2 19970502 (EN)

Application
EP 96113570 A 19960823

Priority
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Abstract (en)
A heat-resistant sheet, which has slits formed therein, is provided between a fixing roller and a pressure member. The heat-resistant sheet, which has a thickness of 300 μ 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 increases, the heat-resistant sheet starts expanding gradually, causing its surface to be deflected. However, when the fixing roller reaches a set temperature, the expanded portion of the heat-resistant sheet and its surface deflection are all absorbed by the slits, and the slit width becomes zero. Therefore, it is possible to keep an optimal nip width while maintaining a proper applied pressure of the pressure member, without the necessity of having to use 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 slits. <IMAGE>

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G03G 15/20

IPC 8 full level
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Cited by
EP0833223A3; US5809389A; EP0784247A3

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