

Title (en)

Method and device for fixing of toner images

Title (de)

Verfahren und Vorrichtung zum Fixieren von Tonerbildern

Title (fr)

Procédé et dispositif pour fixer des images de toner

Publication

EP 0924575 A2 19990623 (DE)

Application

EP 98121575 A 19981119

Priority

DE 19755584 A 19971215

Abstract (en)

To fix a toner image to a substrate, without contacting, a hot gas with a significant steam content is used to place the toner image on to a substrate. A contactless method of fixing a toner image to a substrate using a gas at 150-400 degrees C, involves moving the substrate into a zone where the toner image is placed and then carrying through a zone where its is actively cooled. Preferred Features: The housing (2) is closed, apart from one side which a narrow gap from the substrate (1) movement path; the substrate movement path and the housing (2) defining an enclosed inner zone (3). Alternatively, the housing can be closed on all sides, with two narrow openings for the substrate movement path in and out of the enclosed zone within the housing. The cooling system acts on the substrate, which is specifically of paper, when it has moved out of the enclosed zone (3). An Independent claim is also included for an apparatus arrangement for fixing toner which includes a generator for producing hot gas, with a significant proportion of steam, to be fed into a closed zone (3), surrounding the toner image fixing zone.

Abstract (de)

Die Erfindung betrifft ein Verfahren und eine Vorrichtung zum berührungslosen Fixieren eines Tonerbildes innerhalb eines elektrofotografischen oder verwandten Druckverfahrens auf Papier (1). Zur Fixierung wird Heißgas mit einem wesentlichen Anteil Wasserdampf verwendet, dem das Tonerbild ausgesetzt wird. Die Vorrichtung enthält einen im wesentlichen geschlossenen Raum (3), der das gerade in der Fixierzone befindliche Tonerbild umgibt. <IMAGE>

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