Title (en)

Apparatus for forming multiple toner images in register with each other on a substrate

Title (de)

Gerät zur passgenauen Erzeugung von mehreren Tonerbildern auf ein Substrat

Title (fr)

Appareil de formation en registre de plusieurs images de toner sur un substrate

Publication

EP 0973072 A1 20000119 (EN)

Application

EP 99304270 A 19990601

Priority

- EP 99304270 A 19990601
- EP 98305582 A 19980714

Abstract (en)

The apparatus comprises an endless belt (26), an imaging station (29), a plurality of developing stations (35, 36, 37, 38), and a plurality of transfer stations (40, 41, 42, 43). A controllable belt drive (56) drives the endless belt (26) along a belt path (58) through the imaging station (29), the developing stations (35, 36, 37, 38) and the transfer stations (40, 41, 42, 43). A controllable substrate drive (76) drives the substrate (78) in sheet form along a substrate path (17) into synchronous contact with the endless belt (26) at the transfer stations (40, 41, 42, 43). A preformed timing mark (44) is carried on the belt (26) and a sensor (49) is provided for sensing the passage of the timing mark (44) past a sensing position (48). A control device (50) is provided for controlling the belt drive (56) to run at a constant speed and to control the speed of the belt (26) in response to the sensing of the timing mark (44). The maintenance of a constant belt speed can be more reliably assured. <IMAGE>

IPC 1-7

G03G 15/01; G03G 15/00

IPC 8 full level

G03G 15/00 (2006.01); **G03G 15/01** (2006.01)

CPC (source: EP)

G03G 15/0147 (2013.01); **G03G 15/0194** (2013.01); **G03G 15/5008** (2013.01); G03G 2215/017 (2013.01)

Citation (search report)

- [Y] WO 9807073 A1 19980219 - AGFA GEVAERT NV [BE], et al
- [Y] US 4251154 A 19810217 - RUSSEL MATTHEW J
- [A] EP 0079222 A2 19830518 - XEROX CORP [US]
- [A] WO 9807072 A1 19980219 - AGFA GEVAERT NV [BE], et al
- [A] US 4751549 A 19880614 - KOIZUMI YUTAKA [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 189 (P - 1521) 13 April 1993 (1993-04-13)
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 187 (E - 615) 31 May 1988 (1988-05-31)

Cited by

US6810799B2; WO0235292A1

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

EP 0973072 A1 20000119; **EP 0973072 B1 20040804**

DOCDB simple family (application)

EP 99304270 A 19990601