

Title (en)

Belt device, image forming apparatus, and method to control belt speed

Title (de)

Band, Bilderzeugungsgerät , und Verfahren zur Bandgeschwindigkeitskontrolle

Title (fr)

Bande sans fin, appareil de formation d'images, et méthode de contrôle de vitesse de la bande

Publication

EP 1594016 A2 20051109 (EN)

Application

EP 05252414 A 20050418

Priority

JP 2004137353 A 20040506

Abstract (en)

A first sensor (6, 70) detects a first speed of the belt (10) based on detection of marks on the belt (10) and a first belt speed controlling unit (70) controls a speed of the belt (10) based on the first speed. A second sensor (65, 70') detects a second speed of the belt (10) based on some other method and a second belt speed controlling unit (70') controls a speed of the belt (10) based on the second speed. A scale-mark degradation determining unit (73) that determines whether there is a degradation in the quality of the marks and detects an amount of degradation upon determining that there is a degradation in the quality of the marks. The first belt speed controlling unit (70) is made to control a speed of the belt (10) if the amount of degradation detected by the scale-mark degradation determining unit (73) is less than a predetermined value, and the second belt speed controlling unit (70') is made to control a speed of the belt (10) if the amount of degradation detected by the scale-mark degradation determining unit (73) is not less than the predetermined value.

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