

Title (en)

Electronically controlled device and method for driving the ink fountain rollers

Title (de)

Elektronisch steuerbare Farbkastenwalzenantriebseinrichtung und Verfahren

Title (fr)

Procédé et méthode d'entraînement à commande électronique des rouleaux d'un encrier

Publication

EP 0518234 B1 19960327 (DE)

Application

EP 92109548 A 19920605

Priority

US 71491691 A 19910613

Abstract (en)

[origin: US5090315A] A low-inertia, fast-acting servo motor (40) coupled through a gear to a fountain roll (20) of an inker is controlled and energized by an electronic control unit (45). The control unit controls acceleration of the fountain roll (20) during the period of time when a ductor roller (21) is in contact therewith, from speed 0 to the required speed which is necessary to rotate the fountain roll (20) about a predetermined angle (ϕ s) which, for example, is between 0 DEG and 90 DEG . During the second half of the ductor roller cycle (T), that is, when the ductor roller (21) is separated from the fountain roll (20) and in engagement with an ink transfer roller (22) of the inker, the angular speed of the fountain roll is braked to zero speed. The system permits remote command of the angle of rotation (ϕ s) of the fountain roll (20) during the half cycle (T/2) of the ductor roller (21) as the ductor roller oscillates at a speed depending on printing press machine speed. The rotation of the freely rotatable ductor roller (21) imparted thereto by the ink transfer roller (22) assists in accelerating the fountain roll (20). The closed servo loops ensure operation of the system, as commanded.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

DE4411109C1; EP0962317A1; US5493970A; US5566613A; GB2331960A; GB2331960B; DE4314426A1

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