

Title (en)
INKING DEVICE FOR A PRINTING MACHINE

Publication
EP 0131107 A3 19861029 (DE)

Application
EP 84105188 A 19840508

Priority
DE 3324952 A 19830711

Abstract (en)
[origin: US4581994A] An automatic control system for a zonal ink metering device displaces ink metering elements toward a fountain roller until contact of the individual elements with the fountain roller is detected to establish absolute reference positions. Then the ink metering elements are displaced away from the fountain roller by respective predetermined amounts to obtain a desired ink profile. Once the desired ink profile is obtained, continuous printing is started. During continuous printing, the ink profile is maintained by periodically and sequentially reciprocating one individual ink metering element after another into contact with the fountain roller to reset their respective reference positions. Preferably, contact of the individual ink metering elements with the fountain roller is detected by a pair of electrical contacts in the adjusting devices for the ink metering elements. Preferably, a predetermined biasing force is applied urging the ink metering elements into contact with the fountain roller, and the adjusting mechanism applies force through the electrical contacts to displace the ink metering elements away from the fountain roller. Preferably, the ink metering elements are ink slides and electrical contact and force transmission occurs between a contact plate mounted via a rigid insulator to a substantially fixed support and the end of a threaded spindle engaging a nut fixed to the ink slide. Thus, when closure of the electrical contacts occur, the contact plate becomes grounded.

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CPC (source: EP US)
B41F 31/045 (2013.01 - EP US); **B41P 2231/12** (2013.01 - EP US)

Citation (search report)
• [A] DE 2951653 A1 19810702 - ROLAND MAN DRUCKMASCH [DE]
• [A] EP 0040287 A1 19811125 - HEIDELBERGER DRUCKMASCH AG [DE]
• [A] US 4193345 A 19800318 - DORN ALFRED [DE], et al
• [A] GB 2057972 A 19810408 - MASCHF AUGSBURG NUERNBERG AG
• [A] FR 2131160 A6 19721110 - POLYGRAPH LEIPZIG
• [A] US 1778476 A 19301014 - WISE WOOD HENRY A

Cited by
EP0531675A1

Designated contracting state (EPC)
AT CH FR GB IT LI NL SE

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EP 0131107 A2 19850116; EP 0131107 A3 19861029; EP 0131107 B1 19881005; AT E37686 T1 19881015; DE 3324952 C1 19850214; JP H0449475 B2 19920811; JP S6089366 A 19850520; US 4581994 A 19860415

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