

Title (en)
SUPPLEMENTARY PRINTING UNIT

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EP 0234456 A3 19890823 (DE)

Application
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Abstract (en)
[origin: US4729309A] An imprinter, particularly for use downstream of a flexographic printing machine, wherein the stubs at the ends of the counterpressure roller which forms part of the web guiding system are suspended on levers. The levers are pivotable about a horizontal axis defined by a pivot member on one or more carriages which are movable in the frame up and down to move the counterpressure cylinder nearer to or further away from two printing cylinders. The printing cylinders flank the counterpressure cylinder and their stubs are removably installed in open-sided sockets which are provided therefor in the sidewalls of the frame. Each printing cylinder receives ink from a discrete source.

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IPC 8 full level
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Citation (search report)
• [Y] US 2425167 A 19470805 - ARNOLD WHITEHEAD WILLIAM
• [Y] GB 2060494 A 19810507 - HALLMARK CARDS
• [Y] DE 3015273 A1 19801120 - WIFAG MASCHF
• [Y] US 4495886 A 19850129 - PHELPS RICHARD W [US]
• [A] GB 436649 A 19351016 - GOSS PRINTING PRESS CO ENGLAND, et al
• [A] GB 184987 A 19220831 - LINOTYPE MACHINERY LTD, et al
• [A] US 4138944 A 19790213 - BIGGAR III FRANK M
• [Y] US 2201452 A 19400521 - POLLOCK WILLARD M
• [Y] CH 146572 A 19310430 - BERLINER MASCHINENBAU AG [DE], et al
• [Y] GB 198864 A 19230614 - CALICO PRINTERS ASS LTD, et al
• [Y] DE 699931 C 19401210 - KOENIG & BAUER SCHNELLPRESSFAB
• [Y] DE 702931 C 19410224 - KOENIG & BAUER SCHNELLPRESSFAB
• [Y] CH 388990 A 19650315 - WINKLER FALLERT & CO MASCHF [CH]

Cited by
WO0224458A1; US5447101A; EP0509414A1; DE102007006062B3; FR2705612A1; EP0464309A3; EP0657282A1; US5503069A; DE10352614A1; US5022251A; DE4344365A1; EP0659554A3; EP1092536A1; US5347926A; DE10163963A1; DE10163963B4; EP0352483A3; US6408756B1; US10919289B2; EP3431291A1; CN109263244A; WO9420299A1; WO03039872A1; EP1552924A2; US7086330B2; EP1932665A2; EP1938975A2; EP1938976A2; US7077061B2; US7114439B2; US6736060B2; US7908966B2; EP1175300B2

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