

Title (en)
GRAVURE MACHINE FOR PRINTING CURRENCY NOTES

Publication
EP 0091709 B1 19860528 (FR)

Application
EP 83200459 A 19830331

Priority
CH 215082 A 19820407

Abstract (en)
[origin: US4516496A] This direct plate printing or copperplate machine comprises a plate carrier cylinder with at least one engraved or etched plate provided with cuts corresponding to the elements of a main design and shallower, finer cuts corresponding to the elements of a safety background, an impression cylinder, an inking roller cooperating with an inking unit and being in direct contact with the plate for inking the cuts corresponding to the elements of the main design, a pre-wiping device and a wiping device, and an inking system for inking the cuts corresponding to the safety background in several colors. This inking system consists of a collector cylinder having a smooth resilient surface cooperating with the engraved or etched plate, this collector cylinder being located, in the direction of rotation of the plate cylinder, ahead of the inking roller and comprising at its outer periphery three color selector cylinders for different colors which comprise in turn relief areas corresponding to the colored areas of the safety background, an inking device being associated with each color selector cylinder. This machine assures a perfect register between the reliefs of the various color areas obtained on the color selector cylinders of hard material for producing for example banknotes printed completely according to the direct plate printing or copperplate method. Due to the presence of hard surface material on the color selector cylinder, there is no limit as to the fineness of the safety background elements.

IPC 1-7
B41F 9/02

IPC 8 full level
B41F 9/00 (2006.01); **B41F 9/02** (2006.01); **B41F 11/00** (2006.01); **B41F 11/02** (2006.01)

CPC (source: EP US)
B41F 9/02 (2013.01 - EP US)

Citation (examination)
FR 1595894 A 19700615

Cited by
EP0176702A1; US4574696A; EP0406157A1; AU630460B2; US4584939A; US4794856A; EP0873866A1; US5899145A; CN1096356C; EP1790473A1; EP2637396A1; WO2013132448A1; US10489522B2; EP2119527A1; EP2743025A2; US9796202B2; EP2524809A1; WO2012160476A1; US8390897B2; US8613254B2; US9221242B2; EP2636527A1; WO2013132471A1; US9475273B2; WO2007113640A2; EP1842665A1; EP2065187A1; EP2384890A1; EP2746049A1; WO2014097227A1; US10150283B2; US8794141B2; US9278514B2; US10052862B2; EP1995062A1; EP2524805A1; WO2012160478A1; WO2013139636A1; EP3031608A1; US9751296B2; US10611184B2; US10703127B2; EP2159069A1; EP2363290A1; WO2011107950A1; EP2722179A1; US8697177B2; WO2014060997A1; US9211696B2; EP1268213B2

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

DOCDB simple family (publication)
EP 0091709 A1 19831019; EP 0091709 B1 19860528; AT E19997 T1 19860615; AU 1254983 A 19831013; AU 550695 B2 19860327; CA 1200147 A 19860204; DD 209596 A5 19840516; DE 3363712 D1 19860703; JP H0242070 B2 19900920; JP S58183257 A 19831026; SU 1194263 A3 19851123; US 4516496 A 19850514

DOCDB simple family (application)
EP 83200459 A 19830331; AT 83200459 T 19830331; AU 1254983 A 19830317; CA 424453 A 19830325; DD 24960983 A 19830406; DE 3363712 T 19830331; JP 5407283 A 19830331; SU 3576798 A 19830406; US 47653983 A 19830318