

Title (en)

GRAVURE PLATE AND GRAVURE PROCESS FOR FULL PRINTING OF LARGE SURFACES

Title (de)

STICHTIEFDRUCKPLATTE UND STICHTIEFDRUCKVERFAHREN ZUM VOLLFLÄCHIGEN BEDRUCKEN GROSSER FLÄCHEN

Title (fr)

PLAQUE ET PROCEDE D'HELIOGRAVURE DESTINES A L'IMPRESSION COMPLETE DE GRANDES SURFACES

Publication

EP 1119457 B2 20140723 (DE)

Application

EP 99947434 A 19990929

Priority

- DE 19845440 A 19981002
- EP 9907217 W 19990929

Abstract (en)

[origin: US2005056175A1] Printing plates for all-over printing of large areas by the intaglio printing process, a method for producing the printing plates and data carriers, in particular bank notes, with large-area printed images produced by the intaglio printing process area proposed. Flawless inking is ensured by providing partitions in the engraving of the printing plate which rise up vertically from the base of the engraved area and have at least a height of 50% of the engraving depth. The partitions largely prevent ink from being wiped out of the engraved areas when ink is wiped off the printing plate surface. This permits a large printed area to be covered all over with ink layers on a data carrier. By special arrangement and design of the partitions one can also produce fine structures in the printing area which are recognizable only with magnifying aids depending on the selected distances between the partitions.

IPC 8 full level

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CPC (source: EP US)

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Citation (opposition)

Opponent :

- JP H0373391 A 19910328 - TOPPAN PRINTING CO LTD
- JP H10250249 A 19980922 - MITSUBISHI ELECTRIC CORP
- JP H1044635 A 19980217 - DAINIPPON PRINTING CO LTD
- EP 0146151 A1 19850626 - DE LA RUE GIORI SA [CH]
- US 2210923 A 19400813 - JACQUEROD HENRY R, et al
- GB 866070 A 19610426 - KEMITYPE LTD, et al
- DE 20480000 U1
- GB 1466469 A 19770309 - SICPA HOLDING SA
- US 5675420 A 19971007 - BECKETT TONY D [US], et al
- BE 648864 A 19641001
- US 2322530 A 19430622 - MACARTHUR CHARLES J

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US 2005056175 A1 20050317; **US 7350461 B2 20080401**; AR 020890 A1 20020605; AT E228932 T1 20021215; AU 6088199 A 20000426; AU 755233 B2 20021205; CA 2345227 A1 20000413; CA 2345227 C 20070807; CN 1159152 C 20040728; CN 1316952 A 20011010; DE 19845440 A1 20000406; DE 59903682 D1 20030116; DK 1119457 T3 20030324; EP 1119457 A1 20010801; EP 1119457 B1 20021204; EP 1119457 B2 20140723; ES 2188246 T3 20030616; JP 2002526290 A 20020820; JP 2009214555 A 20090924; JP 4392779 B2 20100106; JP 5229964 B2 20130703; PL 190716 B1 20051230; PL 347154 A1 20020325; PT 1119457 E 20030331; RU 2230667 C2 20040620; TR 200100908 T2 20010821; UA 70969 C2 20041115; US 6811858 B1 20041102; WO 0020217 A1 20000413; ZA 200102253 B 20011211

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US 94484804 A 20040921; AR P990104975 A 19990930; AT 99947434 T 19990929; AU 6088199 A 19990929; CA 2345227 A 19990929; CN 99810592 A 19990929; DE 19845440 A 19981002; DE 59903682 T 19990929; DK 99947434 T 19990929; EP 9907217 W 19990929; EP 99947434 A 19990929; ES 99947434 T 19990929; JP 2000573554 A 19990929; JP 2009156624 A 20090701; PL 34715499 A 19990929; PT 99947434 T 19990929; RU 2001111870 A 19990929; TR 200100908 T 19990929; UA 01053028 A 19990929; US 78792001 A 20010628; ZA 200102253 A 20010319