

Title (en)

METHOD FOR ENGRAVING PRINTING CYLINDERS

Title (de)

VERFAHREN ZUR GRAVUR VON DRUCKZYLINDERN

Title (fr)

PROCEDE DE GRAVURE DE CYLINDRES D'IMPRESSION

Publication

EP 1230086 B1 20030716 (DE)

Application

EP 00983066 A 20001027

Priority

- DE 0003791 W 20001027
- DE 19952995 A 19991104

Abstract (en)

[origin: DE19952995A1] The invention relates to a method for engraving printing cylinders in an electronic engraving machine. An engraving control signal (GS) is formed from an image signal representing the tone values of the cup shapes to be engraved, and a periodic raster signal (R) for producing a printing raster. An engraving tool (4) of an engraving mechanism (3) that is controlled by the engraving control signal (GS) engraves a printing mould (8) in a rotating printing cylinder (1) in the form of cup shapes arranged in the printing raster. The operability of the engraving tool (4) is constantly monitored in an engraving tool monitoring device (23) while the rotating cylinder (1) is being engraved, by digitally filtering the engraving control signal (GS), especially by means of fast fourier transformation. In the event that damage is detected, especially a break in the engraving tool (4), a control signal (KS) that interrupts the engraving process or acoustically or optically signals the damage is produced.

IPC 1-7

B41C 1/045

IPC 8 full level

B41C 1/045 (2006.01)

CPC (source: EP US)

B41C 1/045 (2013.01 - EP US); **B41M 2205/16** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE ES FR IT LI

DOCDB simple family (publication)

DE 19952995 A1 20010510; DE 50002935 D1 20030821; EP 1230086 A1 20020814; EP 1230086 B1 20030716; JP 2003527256 A 20030916; JP 3496027 B2 20040209; US 7102794 B1 20060905; WO 0132420 A1 20010510

DOCDB simple family (application)

DE 19952995 A 19991104; DE 0003791 W 20001027; DE 50002935 T 20001027; EP 00983066 A 20001027; JP 2001534602 A 20001027; US 11064502 A 20020724