

Title (en)

Process and device for printing on glass or ceramic surfaces

Title (de)

Verfahren und Vorrichtung zur Bedruckung von Glasflächen oder Keramikflächen

Title (fr)

Procédé et dispositif pour l'impression sur des surfaces en verre ou en céramique

Publication

EP 1342583 A3 20040922 (DE)

Application

EP 03005175 A 20030307

Priority

DE 10210096 A 20020308

Abstract (en)

[origin: EP1342583A2] Multi-color screen printing especially on glass or ceramics comprises providing at least 2 inks of a viscosity suitable for the screen mesh, setting the inks to a temperature close to the melting temperature but non-critical for the carrier material, applying the inks sequentially with a suitable screen and burning at least 2 of the ink layers. Multi-color screen printing, especially on glass or ceramics, comprises: (i) providing at least 2 inks of a viscosity suitable for the screen mesh, but allowing them to remain as a stable paste; (ii) setting the inks to a temperature close to the melting temperature but non-critical for the carrier material; (iii) applying the inks sequentially with a suitable screen superimposed or side-by-side or overlapping; and (iv) burning at least 2 of the ink layers. An Independent claim is also included for an ink set giving annealable multi-color screen printing directly onto surfaces (especially glass or ceramic) by subtractive mixing, the set comprising at least 2 printing inks with the same melting temperature range.

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B41M 1/12; B41M 1/34

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [X] US 3509087 A 19700428 - GERHARDT ROBERT FRANK
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