

Title (en)
Thermosensitive stencil printing apparatus

Title (de)
Wärmeempfindliche Schablonendruckvorrichtung

Title (fr)
Dispositif d'impression par stencil thermosensible

Publication
EP 0867305 B1 20011107 (EN)

Application
EP 98105246 A 19980323

Priority
JP 8885197 A 19970324

Abstract (en)
[origin: EP0867305A1] Provided is a printing apparatus provided with a liquid ejecting means by which a photothermal conversion material is transferred to a heat-sensitive stencil sheet to reproduce images thereon, a light irradiation means which irradiates the heat-sensitive stencil sheet with a visible or infrared ray to perforate the stencil sheet, an ink-permeable cylindrical printing drum, a heating means which heats a stencil printing ink which reversibly changes in its phase from solid state to liquid state in the printing drum, a squeeze means which internally contacts with the inner circumferential surface of the printing drum and feeds the ink to the inner surface, and a pressing means which presses at least one of the printing drum and a printing sheet, thereby to bring them into close contact with each other, so that the stencil printing ink is transferred to the printing sheet through the perforated heat-sensitive stencil sheet, wherein said liquid ejecting means further ejects a photothermal conversion material and/or a colorant onto the printing sheet, whereby images can be directly printed on the printing sheet. According to this printing apparatus, no wrinkling of the stencil sheet occurs and no failure in conveyance of the stencil sheet is caused, and prints of a small number to a large number can be efficiently obtained at a low running cost, and the resulting prints are superior in drying properties with neither set-off of ink nor seep through.

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