

Title (en)
Printing machine and printing method

Title (de)
Druckmaschine und Druckverfahren

Title (fr)
Machine à imprimer et procédé d'impression

Publication
EP 1918100 A2 20080507 (FR)

Application
EP 07291317 A 20071102

Priority
FR 0609633 A 20061103

Abstract (en)
The machine (2) has a print station (12) with a printing unit (44) fixed on a support plate (42) for injecting ink on an object, and additional printing units (46, 48, 50). The printing units (44, 46, 48, 50) are arranged along a circle centered on an axis of rotation of a spool (8) when the spool is disposed in a print position. A control unit calculates theoretical instances of trigger of ink injection from each printing unit, on the object based on data representative of print pattern, size of the object, and position and speed of rotation of the spool carrying the object. An independent claim is also included for a method for printing objects.

Abstract (fr)
L'invention concerne une machine à imprimer comprenant une platine de support (42) et une unité d'impression (44) fixée à la platine de support (42) pour projeter de l'encre sur les objets à imprimer. Le poste d'impression comporte au moins une unité d'impression supplémentaire (46,48,50), et en ce que les unités d'impression (44,46,48,50) sont agencées les unes à côté des autres le long d'un cercle centré sur l'axe de rotation (B-B) d'un mandrin (8), lorsque ce mandrin (8) est disposé dans sa position d'impression. L'invention concerne également un procédé d'impression.

IPC 8 full level
B41F 13/46 (2006.01); **B41F 17/08** (2006.01); **B41J 3/54** (2006.01)

CPC (source: EP US)
B41F 13/46 (2013.01 - EP US); **B41F 17/08** (2013.01 - EP US); **B41J 3/4073** (2013.01 - EP US); **B41J 3/40733** (2020.08 - EP US); **B41J 3/543** (2013.01 - EP)

Cited by
EP3434490A1; EP2595810A4; EP2444251A1; US9156281B2; EP2722186A1; WO2016071444A1; WO2017032553A1; US10144237B2; US11014376B2; WO2012012793A2; US10279600B2; EP2832546B1

Designated contracting state (EPC)
DE GB

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1918100 A2 20080507; **EP 1918100 A3 20110518**; **EP 1918100 B1 20150107**; FR 2908076 A1 20080509; FR 2908076 B1 20100219; US 2008264276 A1 20081030; US 8070244 B2 20111206

DOCDB simple family (application)
EP 07291317 A 20071102; FR 0609633 A 20061103; US 93411907 A 20071102