

Title (en)
Flat bed thermal printer.

Title (de)
Thermischer Drucker mit flachem Druckwiderlager.

Title (fr)
Imprimante thermique à appui plat.

Publication
EP 0293089 A2 19881130 (EN)

Application
EP 88303859 A 19880428

Priority
• GB 8710059 A 19870428
• GB 8721460 A 19870911

Abstract (en)
Flat bed thermal printing apparatus adapted to print information on to an elongate substrate (5), or on to products (24) disposed upon the substrate (5), at a printing area within the apparatus, the said substrate (5) being movable through the apparatus in a step by step movement, with a stop for printing between each step, along a path which causes the substrate to be disposed in a substantially flat position as the substrate is stopped at the printing area after each step wherein the apparatus comprises a printing head (3) provided with a multiplicity of individually energisable dot type thermal elements (23), means (9) to move the printing head (3) relative to the substrate (5) while the substrate (5) is stationary at the printing area between its stepwise movements through the apparatus with the substrate in its substantially flat disposition, means selectively to energise the said printing elements (23) during movement of the printing head (3) to effect printing and means (13, 14) positively to hold the substrate in position at the printing area during printing.

IPC 1-7
B41J 3/20; **B41J 3/28**

IPC 8 full level
B41J 2/325 (2006.01); **B41J 3/28** (2006.01); **B41J 11/02** (2006.01); **B41J 15/04** (2006.01)

CPC (source: EP)
B41J 2/325 (2013.01); **B41J 3/28** (2013.01)

Cited by
EP0530555A3; DE4230164A1; CN111070909A; USD973765S; GB2283706A; GB2283706B; WO9946129A2; WO9426526A1; US10953667B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0293089 A2 19881130; **EP 0293089 A3 19900418**; AU 1519288 A 19881103; AU 598363 B2 19900621; CA 1306638 C 19920825; CN 88102463 A 19881116; DK 225688 A 19881029; DK 225688 D0 19880426; IN 169571 B 19911116; JP S6426480 A 19890127; NO 881842 D0 19880427; NO 881842 L 19881031; NZ 224392 A 19900828

DOCDB simple family (application)
EP 88303859 A 19880428; AU 1519288 A 19880427; CA 564331 A 19880415; CN 88102463 A 19880428; DK 225688 A 19880426; IN 336CA1988 A 19880426; JP 10285588 A 19880427; NO 881842 A 19880427; NZ 22439288 A 19880427