

Title (en)  
A PRINTING HEAD

Title (de)  
DRUCKKOPF

Title (fr)  
TÊTE D'IMPRESSION

Publication  
**EP 3061610 B1 20190605 (EN)**

Application  
**EP 15202656 A 20151224**

Priority

- PL 41138315 A 20150226
- GB 201503290 A 20150227
- EP 15177763 A 20150721
- EP 15202656 A 20151224

Abstract (en)

[origin: EP3061610A1] An inkjet printing head comprising a nozzle assembly having at least two nozzles (111A, 111B; 211A, 211B; 311A, 311B; 411A, 411B; 511A, S11B), each nozzle being connected through a channel (112A, 112B; 212A, 212B; 312A, 312B; 412A, 412B; 512A, 512B) with a separate liquid reservoir for forming a primary drop (121A, 121B, 221A, 221B, 321A, 321B; 421A, 421B; 521A, 521B) of liquid at the nozzle outlet. The printing head further comprises a separator (131, 231, 331, 431, 531) having a downstream-narrowing cross-section positioned between the nozzle outlets (113A, 113B; 213A, 213B; 313A, 313B; 413A, 413B; 513A, 513B) for restricting freedom of movement of the primary drops (121A, 121B, 221A, 221B, 321A, 321B; 421A, 421B; 521A, 521B) within the printing head from the nozzle outlet in a direction towards a connection point (132; 232; 332; 432; 532) to be combined into a combined drop (122; 222; 322; 422; 522) at the connection point (132; 232; 332; 432; 532). The freedom of movement of the primary drops (121A, 121B, 221A, 221B, 321A, 321B; 421A, 421B; 521A, 521B) is restricted along the length of each side wall of the separator (131, 231, 331, 431, 531) that is not smaller than the diameter of the primary drop (121A, 121B, 221A, 221B, 321A, 321B; 421A, 421B; 521A, 521B) exiting the nozzle outlet (113A, 113B; 213A, 213B; 313A, 313B; 413A, 413B; 513A, 513B) at that side wall. The nozzle outlets are configured to discharge primary drops (121A, 121B, 221A, 221B, 321A, 321B; 421A, 421B; 521A, 521B) at an angle inclined towards the longitudinal axis of the head. The printing head further comprises a cover (181, 281, 381, 481, 581) enclosing the nozzle outlets (113A, 113B; 213A, 213B; 313A, 313B; 413A, 413B; 513A, 513B) and the connection point (132; 232; 332; 432; 532).

IPC 8 full level  
**B41J 2/21** (2006.01)

CPC (source: EP)  
**B41J 2/211** (2013.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3061610 A1 20160831; EP 3061610 B1 20190605**

DOCDB simple family (application)  
**EP 15202656 A 20151224**