

Title (en)
A PRINTING HEAD

Title (de)
DRUCKKOPF

Title (fr)
TÊTE D'IMPRESSION

Publication
EP 3069884 A1 20160921 (EN)

Application
EP 15202694 A 20151224

Priority
• PL 41160515 A 20150317
• GB 201504539 A 20150318

Abstract (en)
A drop-on-demand inkjet printing head comprising a nozzle assembly having at least two nozzles (111A, 111B), each nozzle (111A, 111B) being connected through a channel (112A, 112B) with a separate liquid reservoir (116A, 116B) and having at its outlet (113A, 113B) a drop generating and propelling device (161A, 161B) for forming on demand a primary drop (121A, 121B) of liquid at a nozzle outlet (113A, 113B), wherein the first nozzle (111A) is configured to discharge a first primary drop (121A) along a first path and the second nozzle (111B) is configured to discharge a second primary drop (121B) along a second path which is not aligned with the first path, characterized in that the printing head further comprises a set of electrodes (141, 142) for altering the path of flight of the second primary drop (121B) to a path being in line with the path of flight of the first primary drop (121A) before or at a connection point (132) to allow the first primary drop (121A) to combine with the second primary drop (121B) at the connection point (132) into a combined drop (122), wherein each of the first primary drops (121A) and second primary drops (121B) are output to a surface to be printed.

IPC 8 full level
B41J 2/21 (2006.01)

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Citation (search report)
• [A] EP 0775583 A2 19970528 - OKI DATA KK [JP]
• [A] DE 102006048460 A1 20080424 - KBA METRONIC AG [DE]
• [A] EP 1574343 A2 20050914 - BROTHER IND LTD [JP]

Cited by
GB2554445A; GB2554445B; GB2555470A; GB2555470B; US11945153B2; DE102020108317A1; WO2021190978A1; WO2019008373A1

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