

Title (en)

Multijet printing module and printing apparatus with several modules

Title (de)

Druckmodul mit Mehrfachdüsen und Drucker unter Verwendung mehrerer Module

Title (fr)

Module d'impression multijet et appareil d'impression comportant plusieurs modules

Publication

**EP 0532406 B1 19960117 (FR)**

Application

**EP 92402453 A 19920908**

Priority

FR 9111151 A 19910910

Abstract (en)

[origin: EP0532406A1] The invention relates to ink-jet printing machines consisting of juxtaposed printing modules. According to the invention, in each printing module the means (33) for generating the ink jets, the means (32) for deflecting the ink drops and the means (34) for recovering the undeflected drops are carried by a one-piece body (29) arranged on one face of a supporting beam (28); the opposite face of the said beam (28) carries ink supply means (86, 111) and a reservoir (62) for recovering the unused ink coming from the recovery means (34) and from the generating means (33). Moreover, the means (33) for deflecting the ink drops are mounted pivotably in order to insert them between the means (33) for generating the jets and the means (34) for recovering the drops in the event of printing or to disengage them in the event of maintenance. <IMAGE>

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CPC (source: EP KR US)

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Citation (examination)

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Cited by

FR2763870A1; ES2385407A1; US8091989B2; US6511164B1; WO2008110591A1; WO9855315A1; EP1145852A1; FR2807703A1

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