

Title (en)  
Ink-jet swath printer with auxiliary ink reservoir

Title (de)  
Tintenstrahldrucker mit Hilfstintenbehälter

Title (fr)  
Imprimante à jet d'encre avec réservoir auxiliaire

Publication  
**EP 0745481 A2 19961204 (EN)**

Application  
**EP 96303276 A 19960510**

Priority  
US 45547895 A 19950531

Abstract (en)  
An ink-jet swath printer employing a cartridge (50) with a spring bag primary reservoir (62) and an auxiliary ink reservoir (230) interconnected via a tube (240) to form a closed ink replenishment system. The primary reservoir creates a negative pressure which draws ink from the auxiliary reservoir as ink is expelled from the cartridge printhead (76) during printing operations. The auxiliary reservoir can either be mounted on the cartridge carriage (210) or on the printer body (202). The auxiliary reservoir is a large capacity collapsible bag mounted below the level of the printhead to establish an ink pressure head at the primary reservoir connection which is not so large as to destroy or diminish the negative pressure and allow ink to drool from the printhead, yet is sufficient to permit replenishment of the primary reservoir to avoid printhead ink starvation.

IPC 1-7  
**B41J 2/175**

IPC 8 full level  
**B41J 2/01** (2006.01); **B41J 2/175** (2006.01); **G01D 15/18** (2006.01)

CPC (source: EP)  
**B41J 2/17509** (2013.01); **B41J 2/17513** (2013.01); **B41J 2/1752** (2013.01); **B41J 2002/17516** (2013.01)

Cited by  
US5792380A; EP0865925A1; US6106089A; AU2013216640B2; CN115416403A; GB2323816A; GB2323816B; US6109743A; EP0853001A3

Designated contracting state (EPC)  
DE GB IT

DOCDB simple family (publication)  
**EP 0745481 A2 19961204; EP 0745481 A3 19980401**; JP H08323996 A 19961210

DOCDB simple family (application)  
**EP 96303276 A 19960510**; JP 13697296 A 19960530