

Title (en)

Flushing position controller incorporated in ink-jet recording apparatus and flushing method used for the same

Title (de)

In einem Tintenstrahlaufzeichnungsgerät eingebauter Spülpositionsregler und Spülverfahren dafür

Title (fr)

Commande de position de rinçage incorporé dans un appareil d'enregistrement à jet d'encre et méthode de rinçage utilisé à cet effet

Publication

EP 1002648 A1 20000524 (EN)

Application

EP 99123128 A 19991119

Priority

- JP 33102698 A 19981120
- JP 33801598 A 19981127
- JP 35906898 A 19981217
- JP 34307998 A 19981202
- JP 8692199 A 19990329

Abstract (en)

Flushing regions for receiving ink droplets to be ejected when flushing signal is supplied to a recording head are provided in both of non-print regions situated at both sides of print region in order to prevent throughput during the flushing operation from deteriorating. A guide member having a slant surface is disposed between the recording head and an ink absorbing member to which the ink landed on the slant surface flows in order to reduce in size of the ink absorbing member. A porous sheet member closely faced to nozzle orifices of the recording head for receiving the ink droplets ejected therefrom is provided in order to prevent undesired mist of fine ink droplets from generating. A plurality of plate members closely faced to the nozzle orifices are provided at a predetermined angle with respect to the flight direction of the ink droplets in order to prevent the undesired mist from generating. The flushing operation is performed so as to prevent solidification of the ejected ink. <IMAGE>

IPC 1-7

B41J 2/165

IPC 8 full level

B41J 2/165 (2006.01); **B41J 2/17** (2006.01)

CPC (source: EP)

B41J 2/16508 (2013.01); **B41J 2/1721** (2013.01); **B41J 2002/1728** (2013.01); **B41J 2002/1742** (2013.01)

Citation (search report)

- [XY] EP 0822086 A2 19980204 - CANON KK [JP]
- [X] EP 0724965 A2 19960807 - CANON KK [JP]
- [XA] EP 0585923 A2 19940309 - CANON KK [JP]
- [YA] EP 0842779 A2 19980520 - SEIKO EPSON CORP [JP]
- [YA] EP 0744294 A1 19961127 - SEIKO EPSON CORP [JP]
- [YA] US 5717444 A 19980210 - SUGIMOTO HITOSHI [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04 31 March 1998 (1998-03-31)

Cited by

US6913339B2; EP1195252A1; CN115610103A; US6663219B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1002648 A1 20000524; EP 1982836 A2 20081022; EP 1982836 A3 20090128

DOCDB simple family (application)

EP 99123128 A 19991119; EP 08161992 A 19991119