

Title (en)

Image recording apparatus provided with a discharger for removing charges from recording medium

Title (de)

Bildaufzeichnungsgerät versehen mit einer Vorrichtung zum Entfernen von Ladungen von dem Aufzeichnungsträger

Title (fr)

Appareil d'enregistrement d'images avec un dispositif d'élimination des charges du support d'enregistrement

Publication

EP 0795414 A3 19980128 (EN)

Application

EP 97301723 A 19970314

Priority

JP 5725796 A 19960314

Abstract (en)

[origin: EP0795414A2] An image recording apparatus includes a transport unit (22) for conveying a recording medium, and a print head (1). The print head (1) includes a heater unit (2) for heating and vaporizing ink, an eject unit (4, 11) for ejecting ink vaporized by the heater unit (2) onto the recording medium, and an eject control unit (8) for controlling the vaporous ink so that it is ejected intermittently according to image data corresponding to an image to be recorded. The eject unit (4, 11) includes a charging unit (4) for charging vaporous ink, a backside electric unit (11) provided at a back surface of the recording medium for attracting the vaporous ink charged by the charging unit (4) onto the recording medium. The eject control unit (8) includes an electrostatic shutter unit (8) for controlling ejection of the vaporous ink charged by the charging unit with an electric field. The image recording apparatus further includes a discharger unit (24) provided upstream of the eject unit (4, 11) in a conveying direction of the recording medium for removing the charges from the recording medium. <IMAGE>

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CPC (source: EP)

B41J 2/06 (2013.01); **B41J 11/0015** (2013.01); **B41J 29/00** (2013.01); **B41J 2002/061** (2013.01)

Citation (search report)

- [YA] US 5374949 A 19941220 - WADA TAKASUMI [JP], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 017, no. 455 (M - 1466) 20 August 1993 (1993-08-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 201 (M - 325) 14 September 1984 (1984-09-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 500 (M - 891) 10 November 1989 (1989-11-10)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 072 (P - 438) 22 March 1986 (1986-03-22)

Cited by

US7934791B2; US7832841B2; WO2006068281A3; WO2010069901A1

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