FEP - SG
IPOS's copy 9609709-2

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 444 654 A1**

(12) EUROPEAN PATENT APPLICATION

(21) Application number: **91102965.0**

(51) Int. Cl.5: **B41J 2/165**

(22) Date of filing: **27.02.91**

(30) Priority: **28.02.90 JP 48176/90**
11.04.90 JP 96832/90
11.04.90 JP 95409/90

(43) Date of publication of application:
04.09.91 Bulletin 91/36

(84) Designated Contracting States:
BE DE ES FR GB IT NL SE

(71) Applicant: **CANON KABUSHIKI KAISHA**
30-2, 3-chome, Shimomaruko, Ohta-ku
Tokyo(JP)

(72) Inventor: **Sugimoto, Hitoshi**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Yano, Kentaro**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Otsuka, Naoji**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Matsubara, Miyuki**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Tajika, Hiroshi**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Koitabashi, Noribumi**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Arai, Atsushi**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)
Inventor: **Hirabayashi, Hiromitsu**
c/o Canon Kabushiki Kaisha, 3-30-2,
Shimomaruko
Ohta-ku, Tokyo(JP)

(74) Representative: **Tiedtke, Harro, Dipl.-Ing. et al**
Patentanwaltsbüro Tiedtke-Bühling-Kinne-
Grupe-Pellmann-Grams Bavariaring 4
Postfach 20 24 03
W-8000 München 2(DE)

(54) An ink jet apparatus.

(57) An ink jet recording apparatus includes ink ejecting outlets for ejecting ink; an ink container for containing the ink to be supplied to the ejecting outlets; ink supply passage for supplying the ink from the container to the ejecting outlets; a recovery system for forcedly ejecting the ink through the ejecting outlets; and wherein the recovery system repeats the forced ejecting action, and a quantity of the ink ejected by one forced ejecting action is larger than an inside volume of the ink passage.

EP 0 444 654 A1

This Sheet Has Been Replaced

REPLACED SHEETS SG
☑ Description : paged 1 to paged 23
☑ Claim(s) : paged 23 to paged 24
☑ Drawing(s) : paged 1 to paged 25
☑ Abstract : paged 1 to paged
DATE OF RECEIPT

Rank Xerox (UK) Business Services

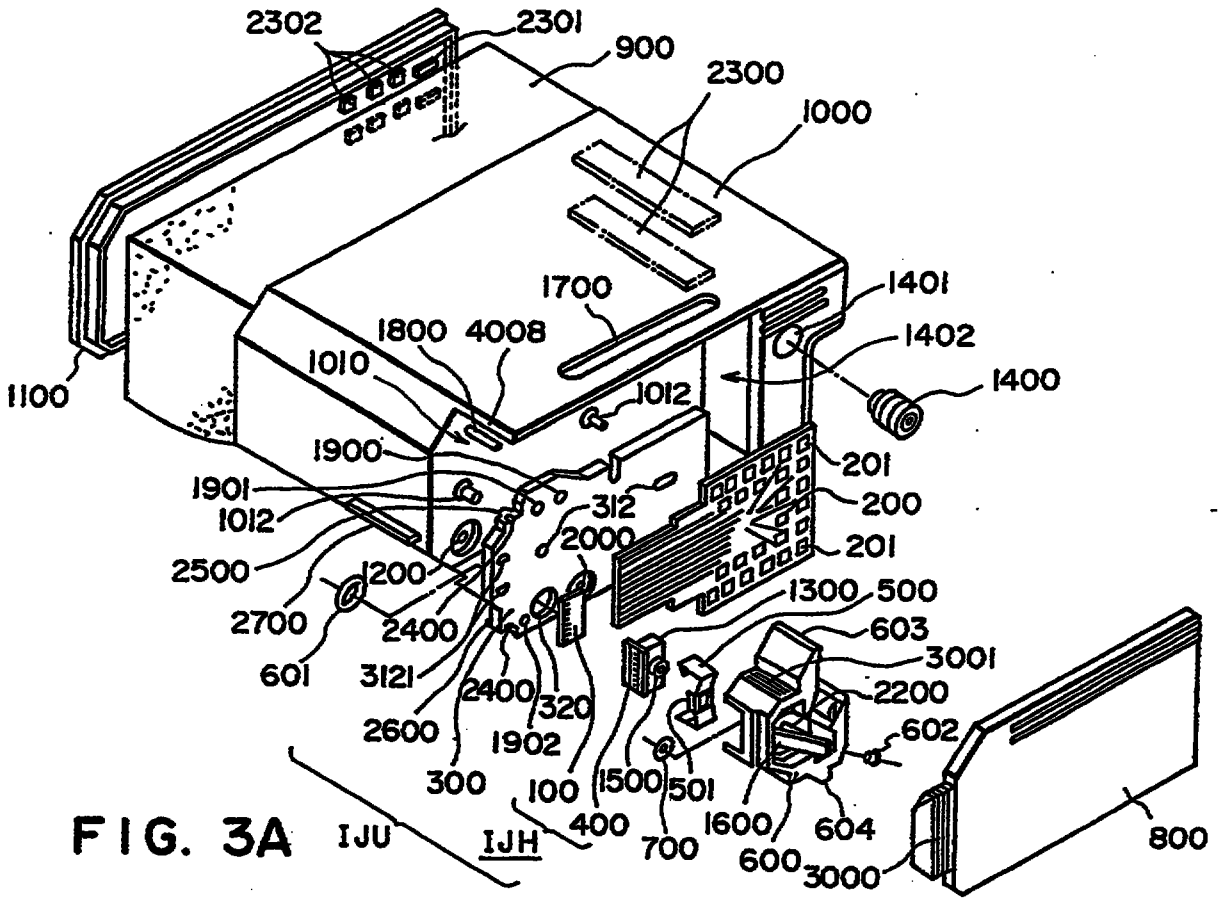


FIG. 3A

This Sheet Has Been Replaced