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## EUROPEAN PATENT APPLICATION

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(71) Applicant: **BROTHER KOGYO KABUSHIKI KAISHA  
Nagoya-shi, Aichi-ken 467-8561 (JP)**

(72) Inventors:  

- Sasaki, Toyonori  
Mizuho-ku Nagoya-shi Aichi-ken 467-8561 (JP)**
- Iijima, Shota  
Mizuho-ku Nagoya-shi Aichi-ken 467-8561 (JP)**

(74) Representative: **Hofer, Dorothea, Dipl.-Phys. et al  
Prüfer & Partner GbR  
Patentanwälte  
Harthauser Strasse 25 d  
81545 München (DE)**

### (54) Ink cartridge and recording device

(57) An ink cartridge (200) is used mounted in a recording device with a hollow needle (82), a lever, a protruding wall, and an optical sensor (170). The lever and the optical sensor are located on either side of the hollow needle, but closer to the opening through which the ink cartridge is mounted. The ink cartridge is formed with two grooves open (236,240) to the front and lower surfaces of the ink cartridge at positions that correspond to the protruding wall and the optical sensor. A light blocking member is disposed in the groove that corresponds to the optical sensor. When the ink cartridge is mounted into the recording device, one groove accommodates and is guided by the protruding wall. The other groove accommodates the sensor so that the light blocking member protrudes into the optical sensor. Also, the front surface of the ink cartridge abuts the lever, which uncovers the hollow needle so that ink supply hole in the front surface of the ink cartridge is inserted with the hollow needle.

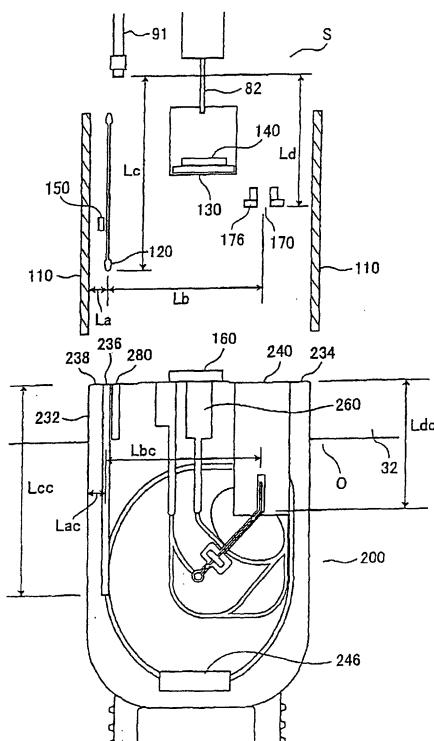


FIG. 30



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## EUROPEAN SEARCH REPORT

Application Number  
EP 04 01 6566

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<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>The Hague</td> <td>14 December 2004</td> <td>Adam, E</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	The Hague	14 December 2004	Adam, E
Place of search	Date of completion of the search	Examiner							
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