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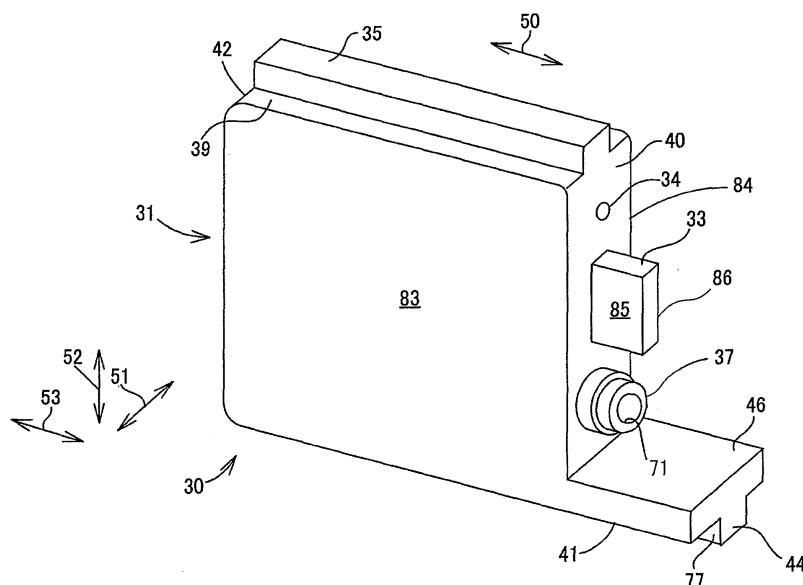
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(54) **Ink cartridge and recording apparatus**

(57) There is provided an ink cartridge including a body, a particular interface and an engagement portion. The body has a front side at which an ink supply portion is located for supplying ink stored in an ink chamber to an exterior of the ink chamber, and a rear side located to face the front side. The particular interface is positioned

substantially adjacent to the ink supply portion at the front side, wherein the particular interface is configured to be biased by a biasing member in a specific direction. The engagement portion is configured to be engaged with a locking section of a cartridge installation portion for retaining the body in an installed state.

FIG.2





EUROPEAN SEARCH REPORT

 Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 2 233 301 A1 (BROTHER IND LTD [JP]) 29 September 2010 (2010-09-29)	1-11, 14-16	INV. B41J2/175
Y	* paragraphs [0075], [0074], [0082]; figures 3a, 4a, 4b * * paragraph [0061]; figure 2b *	11	
X	US 2008/239036 A1 (HATTORI SHINGO [JP]) 2 October 2008 (2008-10-02)	1-10, 14-16	
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		-/--	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 October 2012	Examiner Adam, Emmanuel
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EUROPEAN SEARCH REPORT

Application Number
EP 11 16 0393

DOCUMENTS CONSIDERED TO BE RELEVANT			
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Y	----- US 2009/141106 A1 (TAKAGI YUKI [JP]) 4 June 2009 (2009-06-04) * paragraph [0040]; figures 2,5,8 *	11	
A	----- EP 1 352 748 A1 (CANON KK [JP]) 15 October 2003 (2003-10-15) * paragraph [0042]; figures 2,3 *	12,13	
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			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-10, 14-16

recording apparatus comprising a mounting portion and an ink cartridge, the ink cartridge comprising a body and an engagement portion configured to be engaged with a locking section for retaining the body in an installed state, wherein the body includes an upper surface and a bottom surface opposite to the upper surface, the upper surface extending from a front surface positioned at the front side to a rear surface positioned at the rear side, and wherein the bottom surface is provided with the engagement portion, the engagement portion engaging the locking section for restraining the body in the stalled state from moving in the specific direction against a biasing force of the biasing member.

2. claim: 11

ink cartridge comprising a body formed with an opening at the front side for drawing an air from the exterior of the ink chamber into an interior of the ink chamber, and wherein the opening is configured to engage an outer peripheral surface of a rod of the cartridge installation portion.

3. claim: 12

ink cartridge comprising an the engagement portion which comprises a pair of side surfaces extending along the installation direction, the pair of side surfaces defining a distance therebetween, the distance gradually increasing toward the front side.

4. claim: 13

ink cartridge comprising an engagement portion which comprises a latch lever and an urging member, the latch lever being configured to move between a first position in which the latch lever is in engagement with the locking section and a second position in which the latch lever is disengaged from the locking section, and the urging member being configured to urge the latch lever to the first position.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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