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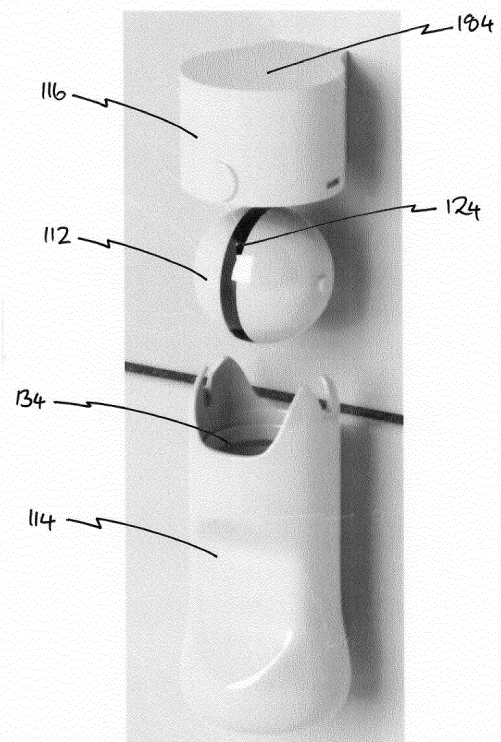
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(54) **REFILLABLE ROLLERBALL**

(57) A device for applying a liquid to a surface is disclosed. The roller ball device is primarily for applying liquid cleansing gel to toilet papers for use in personal cleaning. The device has a ball and a bottle which contains the liquid. A cage forms part of the bottle with a first opening to expose the ball to the liquid gel. There is also a second opening for exposing the ball to the surface onto which the liquid gel is to be applied. An edge of this second opening has a first pair of portions which are located on one side of a meridian of the ball and a second pair of portions of the edge are located on the other side of the meridian. The undulating edge makes it easy to remove the ball to replenish the bottle with cleansing liquid.

Figure 4.





EUROPEAN SEARCH REPORT

Application Number

EP 23 21 7336

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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)
Y	US 2009/289055 A1 (BAARMAN DAVID W [US] ET AL) 26 November 2009 (2009-11-26) * paragraph [0041] - paragraph [0047]; claims 1-21; figures 1-13 * -----	1-5	INV. A45D34/04 ADD. A47K10/32
Y	US 2012/238926 A1 (DIEZINGER THOMAS EUGENE JOSEPH [FR]) 20 September 2012 (2012-09-20) * paragraph [0098] - paragraph [0103]; claims 1-28; figures 1-11 * -----	1-5	
			TECHNICAL FIELDS SEARCHED (IPC)
			A45D A45F A47K
-The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 16 April 2024	Examiner Oliveras, Mariana
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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EP 23 21 7336

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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:

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☐ 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

EP 23 21 7336

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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: 1-5

A roller device for applying a liquid to a surface characterised by a magnetic attachment between the cap and the ball

2. claims: 6-15

A roller device for applying a liquid to a surface characterised by the shape of the retainer cage of the ball allowing to refill the dispenser.

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

EP 23 21 7336

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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16-04-2024

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