A DRINKING STRAW THAT CONTAINS SUBSTANCES FOR TREATING THE SIDE EFFECTS OF ALCOHOL CONSUMPTION

Abstract: A drinking straw that contains an alcohol treatment substance such that the user consumes the alcohol treatment substance while drinking the alcoholic beverage using the drinking straw. The drinking straw may include a perforated top barrier and a perforated bottom barrier with an alcohol treatment substance in between or may have a perforated capsule containing an alcohol treatment substance in it or attached to its bottom opening.
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, 
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 
RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, 
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, 
LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, 
SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, 
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(88) Date of publication of the international search report:
19 May 2016
## INTERNATIONAL SEARCH REPORT

**International application No.**

PCT/IL 11/00904

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(8) - A24F 47/00 (2012.01)

USPC - 131/273; 131/270

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A24F 47/00 (2012.01);

USPC - 131/273; 131/270

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Patents and NPL (classification, keyword; search terms below)

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

PubWest (US Pat, PgPub, EPO, JPO), Google Scholar (PL, NPL), Free Patents Online (US Pat, PgPub, EPO, JPO, WIPO, NPL);

Search terms used: drink, beverage, sip, straw, tube, alcohol, substance, nicotine, treat, therapeutic, pharmaceutical, mineral, toulmaline, zeolite, germanium, magnesium, neodymium, Maifan, fir, lava, bismesete, calcium, zinc

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2003/01 11088 A1 (FOX) 19 June 2003 (19.06.2003). Fig. 1: para [0021], [0023], [0026], [0034], [0060], [0065]</td>
<td>1</td>
</tr>
<tr>
<td>Y</td>
<td>WO 99/09871 A1 (SCHLEIDER) 04 March 1999 (04.03.1999). Fig. 1: pg 3, In 26 to pg 4, In 3</td>
<td>1</td>
</tr>
<tr>
<td>X</td>
<td>US 4,816,266 A (TSAU) 28 March 1989 (28.03.1989). Fig. 7: col 1, In 46-55; col 2, In 21-43; col 3, In 35-62; col 4, In 18-31; col 5, In 53-59</td>
<td>2-8</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

**Date of the actual completion of the international search**

07 June 2012 (07.06.2012)

**Date of mailing of the international search report**

20 JUN 2012

**Name and mailing address of the ISA/US**

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

**Authorized officer:** Lee W. Young

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PCT OSP: 571-272-7774

Form PCT/ISA/2 10 (second sheet) (July 2009)
### Box No. II  Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
   - because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
   - because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
   - because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box No. III  Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The following claim groups were found: Group I: Claims 1-8 and Group II: Claims 9-11.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I: is drawn to a drinking straw that contains alcohol treatment substance such that the user consumes the alcohol treatment substance while drinking the alcoholic beverage using the said drinking straw.

Group II: is drawn to a drinking straw that contains alcohol treatment substances such that the user consumes the alcohol treatment substances while drinking the alcoholic beverage using the said drinking straw but whereby the inlet and outlet of the drinking straw are blocked and there are several perforations around the circumference of the bottom and top of the drinking straw through which the liquid flows in and out of the drinking straw.

- Please see Extra Sheet -

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☑ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-8

**Remark on Protest**

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.
Continued from Box No. Ill, Observations where unity of invention is lacking:

The following claim groups were found:

Group I: Claims 1-8
Group II: Claims 9-11

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I: is drawn to a drinking straw that contains alcohol treatment substance such that the user consumes the alcohol treatment substance while drinking the alcoholic beverage using the said drinking straw.

Group II: is drawn to a drinking straw that contains alcohol treatment substances such that the user consumes the alcohol treatment substances while drinking the alcoholic beverage using the said drinking straw but whereby the inlet and outlet of the drinking straw are blocked and there are several perforations around the circumference of the bottom and top of the drinking straw through which the liquid flows in and out of the drinking straw.

The inventions listed in the above-mentioned groups do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Groups I-II lack unity of invention, because even though the inventions of these groups share the technical feature of a drinking straw that contains alcohol treatment substances such that the user consumes the alcohol treatment substance while drinking the alcoholic beverage using the said drinking straw, these technical features are not special technical features as they do not make a contribution over the prior art in view of US 2003/01 11088 A 1 to Fox, which discloses a user consuming an alcohol treatment substance while drinking the alcoholic beverage using the said drinking straw (para [0028], [0065], [0079]).

Groups I-II therefore lack unity under PCT Rule 13 because they do not share a same or corresponding special technical feature.