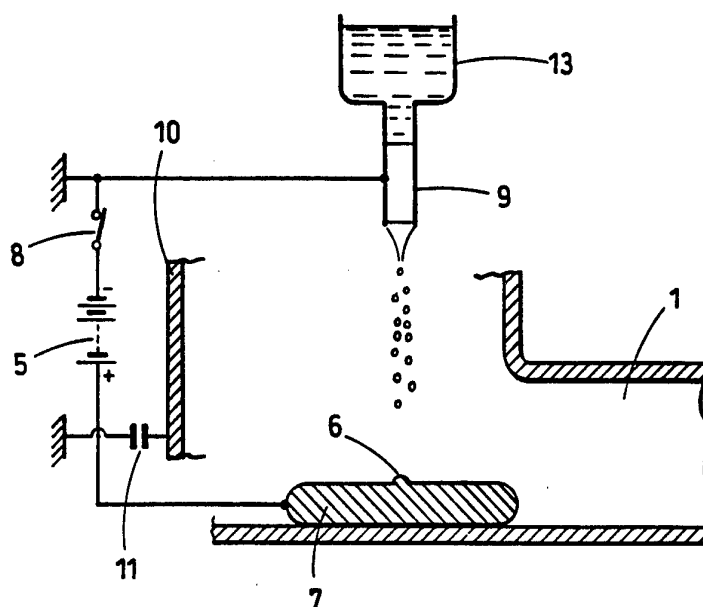




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(54) Title: DISPENSING DEVICE



(57) Abstract

An electrohydrodynamic dispensing device for comminuting a liquid, wherein the liquid is comminuted by an induced electrical charge.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 93/02634

A. CLASSIFICATION OF SUBJECT MATTER
IPC 5 B05B5/043 A61M15/00

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 5 B05B A61M

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A A	WO,A,91 07232 (SICKLES J.E.) 30 May 1991 see page 34, line 2 - page 35, line 2; figure 4 ---	1-3 12-14 15 4
X	TRANSACTIONS OF THE AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS, vol.9, no.4, 1966, SAINT JOSEPH, MICH US pages 501 - 506 S. E. LAW AND H. D. BOWEN 'charging liquid spray by electrostatic induction' ---	1-3
X	US,A,4 266 721 (SICKLES) 12 May 1981 see the whole document --- -/--	1-3



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

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- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

5 July 1994

Date of mailing of the international search report

01.08.94

Name and mailing address of the ISA

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Guastavino, L

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 93/02634

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE,A,20 08 769 (RIKER LABORATORIES) 3 September 1970 see the whole document -----	12-14

INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB93/02634

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

1. CLAIMS 1-11: Electrostatic apparatus with INDUCED charging means.
2. CLAIMS 12-17: Inhaler wherein the discharging means is activated by inhalation of the user.

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 an additional fee, this Authority did not invite payment of any additional fee.
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.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 93/02634

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-9107232	30-05-91	US-A- 5044564 AU-A- 6953791 CA-A- 2030425 EP-A- 0502114 JP-T- 5501675	03-09-91 13-06-91 22-05-91 09-09-92 02-04-93
US-A-4266721	12-05-81	NONE	
DE-A-2008769	03-09-70	BE-A- 746636 CH-A- 521132 FR-A- 2037445 GB-A- 1297993 NL-A- 7002237 SE-B- 378989 US-A- 3565070	27-08-70 15-04-72 31-12-70 29-11-72 01-09-70 22-09-75 23-02-71