



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
11.06.2008 Bulletin 2008/24

(51) Int Cl.:
A24F 47/00 (2006.01)

(43) Date of publication A2:
27.02.2008 Bulletin 2008/09

(21) Application number: **06122562.9**

(22) Date of filing: **19.10.2006**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

(30) Priority: **21.08.2006 JP 2006224102**

(71) Applicant: **Matsumoto, Tsukasa**
Tokyo (JP)

(72) Inventor: **Matsumoto, Tsukasa**
Tokyo (JP)

(74) Representative: **Müller, Enno et al**
Rieder & Partner
Corneliusstrasse 45
D-42329 Wuppertal (DE)

(54) **High function lifelike pipe and pipe cartridge therefor**

(57) Providing with a high function lifelike pipe and pipe cartridge, which can improve the air conductance of the smoking pipe and expand the scope of the available materials for the inhalation. A high function lifelike pipe comprises a pipe body (10) which a cartridge (2) for holding both one ore more luxury goods and a heater for heating the luxury goods are inserted inside, has a mouthpiece (11) at the proximal end and a bowl (12,13) at the distal end with the cartridge (2) being inserted and an air hole (17), an electro-mechanical switch (14) which rotationally deflects responding to the air flow generated

by the inhalation through the mouthpiece (11) and changes its ON/OFF state, a light emitting device (15) arranged so as to partially mask the opening of the distal end of the bowl (12,13), a control circuit (19) for detecting the inhalation based on the ON/OFF of the electro-mechanical switch (14) to control the light emitting device (15) to emit a light, and an electric power supply (16), embedded in the bowl (12,13), for at least supplying the electric power to the light emitting device (15) and control circuit (19), wherein a portion of bowl (12) is separable from the other (13).

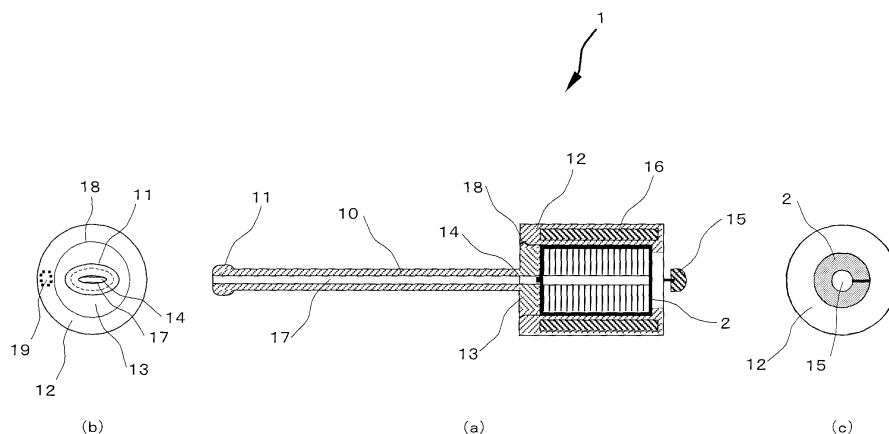


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 06 12 2562

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 4 947 875 A (BROOKS JOHNNY L [US] ET AL) 14 August 1990 (1990-08-14) * column 9, line 49 - column 10, line 2; figure 3 * * column 10, line 32 - column 14, line 31; figures 7-9 * * column 5, line 40 - column 9, line 35; figures 1,2 *	1-3	INV. A24F47/00
Y	US 4 303 083 A (BURRUSS JR ROBERT P) 1 December 1981 (1981-12-01) * column 3, line 57 - column 4, line 61; figures 1,2 *	1,2	
Y	US 3 079 927 A (FASSBENDER FREDERICK A) 5 March 1963 (1963-03-05) * column 1, line 10 - line 14 * * column 3, line 4 - line 53; figures 1,6,8 *	3	
A	EP 0 845 220 A (JAPAN TOBACCO INC [JP]) 3 June 1998 (1998-06-03) * column 5, line 12 - column 6, line 39; figure 1 * * column 15, line 52 - column 16 *		TECHNICAL FIELDS SEARCHED (IPC) A24F
D,A	JP 2004 166660 A (HRD KK) 17 June 2004 (2004-06-17) * abstract *	1,2	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 26 November 2007	Examiner Maier, Michael
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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EPO FORM 1503 03.82 (P04.001)



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Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims 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 the first ten claims.

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:
- 1- 3
- ☐ 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).



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: 1-3

A high function lifelike pipe comprising:
a pipe body having a mouthpiece at the proximal end
and a bowl to store one or more luxury goods
and a heater at the distal end,
an electro-mechanical switch which changes its ON/OFF state
depending on the rotational deflection of its own metal chip
responding to the air flow generated by inhalation through
said mouthpiece,
or a sensor for transforming the stress occurs depending on
the air flow generated by the inhalation through said
mouthpiece to electrical signals to be output,
a light emitting device arranged to mask an opening at the
distal end of said bowl partially,
a control circuit for detecting the inhalation based on the
ON/OFF of said electro-mechanical switch to control said
light emitting device to emit a light, or responding to said
electrical signal transmitted by said sensor
and an electric power supply embedded in said bowl at least
supplying the electric power to said light emitting device
subject to the control by said control circuit.

2. claims: 4-9

A pipe cartridge being inserted in the bowl of the high
function lifelike pipe of any one of claim 1 through claim
3, storing one or more luxury goods and a heater for heating
said luxury goods inside.

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

EP 06 12 2562

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-11-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4947875	A	14-08-1990	NONE	
US 4303083	A	01-12-1981	NONE	
US 3079927	A	05-03-1963	NONE	
EP 0845220	A	03-06-1998	CN 1196660 A	21-10-1998
			DE 69724559 D1	09-10-2003
			DE 69724559 T2	15-07-2004
			WO 9748293 A1	24-12-1997
			JP 3325028 B2	17-09-2002
JP 2004166660	A	17-06-2004	JP 3726154 B2	14-12-2005