



(11)

EP 1 488 710 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
19.04.2006 Bulletin 2006/16

(51) Int Cl.:
A24C 5/00 (2006.01)

(43) Date of publication A2:
22.12.2004 Bulletin 2004/52

(21) Application number: **04425442.3**

(22) Date of filing: **15.06.2004**

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

- **Mengoli, Fausto**
40037 Sasso Marconi (Bologna) (IT)
- **Sartoni, Massimo**
40139 Bologna (IT)
- **Zanetti, Umberto**
41100 Modena (IT)

(30) Priority: **19.06.2003 IT BO20030378**

(71) Applicant: **G.D S.p.A.**
40133 Bologna (IT)

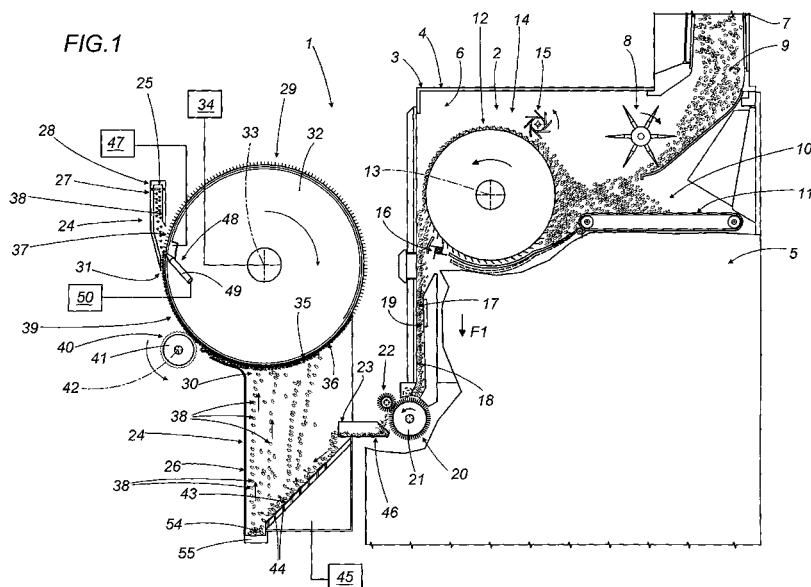
(74) Representative: **Lanzoni, Luciano**
c/o BUGNION S.p.A.
Via Goito, 18
40126 Bologna (IT)

(72) Inventors:
• **Draghetti, Fiorenzo**
40059 Medicina (Bologna) (IT)

(54) **A cigarette maker**

(57) In a cigarette maker, shredded tobacco (9) is directed by a conveyor (23) into a riser (24) and ascends as a flow of distinct particles (38) toward an aspirating belt (25), placed at the top outlet end of the riser (24), by which the particles are attracted and gathered progressively to form a stream of tobacco filler. The riser (24) is made up of a lower first portion (26) in receipt of the to-

bacco (9) from the conveyor (23), and an upper second portion (27) enclosed by the aspirating belt (25); the first portion (26) is embodied separately from the second portion (27), and the two portions are interconnected by the revolving surface of a toothed suction roller (32) designed to transfer a uniform layer of tobacco (9) from the first portion to the second.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 42 5442

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 0 745 335 A (G.D SOCIETA' PER AZIONI) 4 December 1996 (1996-12-04) * column 4, line 23 - line 30; figure 1 * -----	20,21	A24C5/00
X	US 5 370 136 A (DAWSON ET AL) 6 December 1994 (1994-12-06) * column 4, line 21 - line 35; figure 5 * -----	1,2,20, 21	
X	US 5 413 121 A (DAWSON ET AL) 9 May 1995 (1995-05-09) * figure 3 * -----	1,2,20, 21	
A	US 4 564 026 A (WAHLE ET AL) 14 January 1986 (1986-01-14) * figure 2 * -----	1-21	
A	US 3 315 685 A (RICHTER WILLY) 25 April 1967 (1967-04-25) * figure 1 * -----	1-21	
			TECHNICAL FIELDS SEARCHED (IPC)
			A24C
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 February 2006	Examiner Pille, S
<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>			

2
EPO FORM 1503 03.82 (P04C01)

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

EP 04 42 5442

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.

23-02-2006

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0745335	A	04-12-1996	DE	69605599 D1	20-01-2000
			DE	69605599 T2	29-06-2000
			IT	B0950268 A1	29-11-1996

US 5370136	A	06-12-1994	DE	4338371 A1	19-05-1994
			GB	2272828 A	01-06-1994
			IT	1262430 B	19-06-1996
			JP	6209753 A	02-08-1994

US 5413121	A	09-05-1995	DE	4328259 A1	24-03-1994
			FR	2695008 A1	04-03-1994
			IT	1261528 B	23-05-1996
			JP	6153892 A	03-06-1994

US 4564026	A	14-01-1986	GB	2132875 A	18-07-1984
			IT	1167016 B	06-05-1987
			JP	4074994 B	27-11-1992
			JP	59109166 A	23-06-1984

US 3315685	A	25-04-1967	DE	1102624 B	16-03-1961
			FR	1235245 A	01-07-1960
			GB	941607 A	13-11-1963
			GB	941606 A	13-11-1963
			US	3511709 A	12-05-1970
