

United States Patent [19]

Yoshiki et al.

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[45] Date of Patent: Jun. 9, 1998

[54]	TONER 1	вотт	LE			
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[22]	Filed:	Jul.	24, 1996			
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Jul. 24, 1995 [JP] Japan 7-187505 May 1, 1996 [JP] Japan 8-110863						
			399/258 ; 222/1			
[58] Field of Search						
[56] References Cited						
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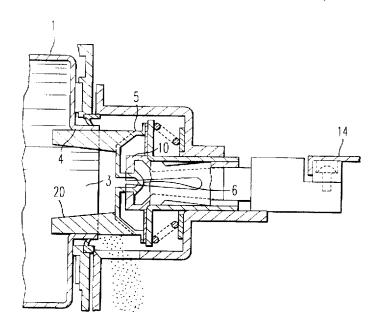
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Attorney, Agent, or Firm—Oblon, Spivak, McClelland Maier & Neustadt, P.C.

[57] ABSTRACT

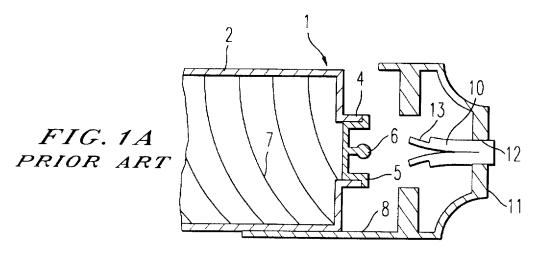
A toner bottle has a bottle body (1) containing toner and a cap (5) closing an opening portion (3) formed in the bottle body (1), and toner is supplied through the opening portion (3). A plateshaped toner scraping member (20) extending into the opening portion (3) and having elasticity is provided on the back surface of the cap (5) in the diameter direction of the cap (5). Also, the outer end of the toner scraping member (20) is positioned inside of the bottle body (1) beyond the opening portion (3) even when the cap (5) is in its cap-opened position. If the toner bottle is constructed in this way, the toner on the opening portion (3) will be scraped by the toner scraping member (20) and toner condensation can be reliably prevented at the opening portion (3) when toner is supplied from the bottle body (1) by rotation of the toner bottle.

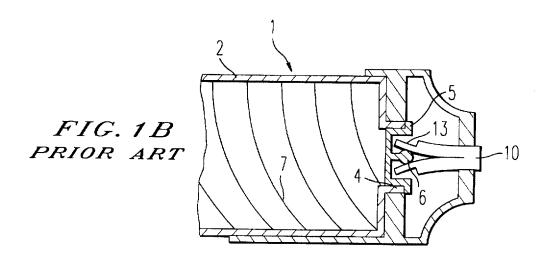
27 Claims, 6 Drawing Sheets

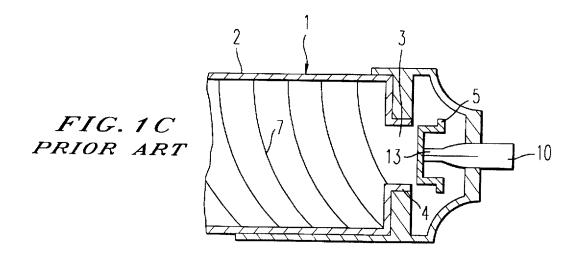


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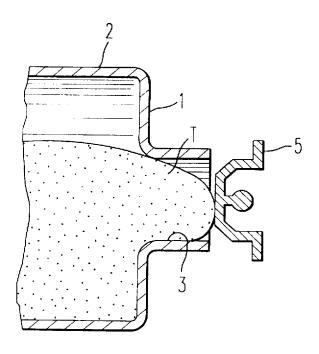


FIG. 2 PRIOR ART

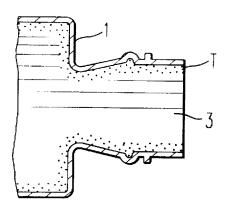


FIG. 3A PRIOR ART

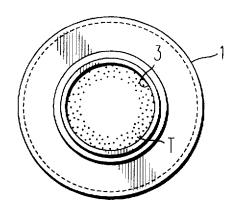


FIG.3BPRIOR ART

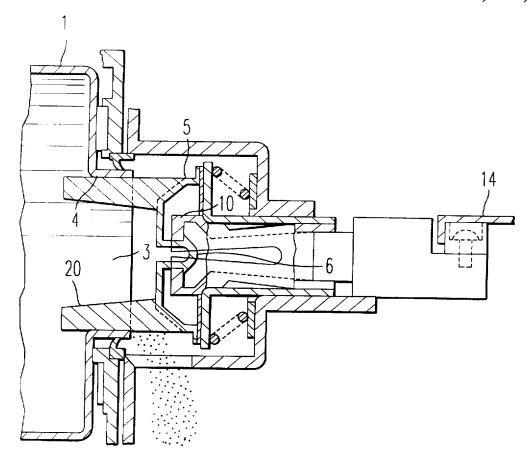
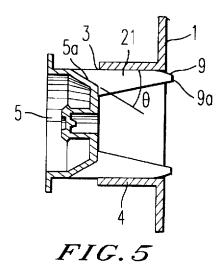


FIG. 4



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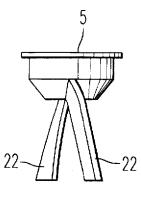


FIG. 6A

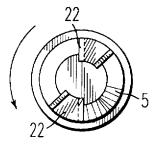


FIG. 6B

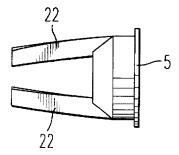


FIG. 6C

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