

### \_\_\_\_

United States Patent [19]

Yasuda et al.

[11] Patent Number: 5,481,344 [45] Date of Patent: Jan. 2, 1996

[54]	AUXILIARY DEVICE, CARTRIDGE AND APPARATUS FOR TONER SUPPLY			
[75]		nichiro Yasuda, Osaka; Hideyo hikawa, Hannan, both of Japan		
[73]	Assignee: Kae	Corporation, Tokyo, Japan		
[21]	Appl. No.: 282	,062		
[22]	Filed: Jul	21, 1994		
[30]	Foreign A	pplication Priority Data		
Jul. 31, 1993 [JP] Japan 5-208321   Nov. 4, 1993 [JP] Japan 5-301043				
		G03G 15/06		
[58]	Field of Search	h		
		222/DIG. 1		
[56]	F	References Cited		
U.S. PATENT DOCUMENTS				
4	,519,693 5/1985	5 Skeels 355/260		

FOREIGN	PATENT	DOCUI	MENTS
---------	--------	-------	-------

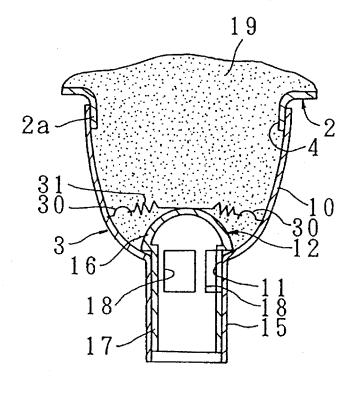
55-134875	10/1980	Japan .
59-93471	5/1984	Japan .
59-105663	6/1984	Japan 355/260
60-80878	5/1985	Japan .
60-130772	7/1985	Japan .
1-91163	4/1989	Japan 355/260
1-120587	5/1989	Japan 355/260
3-47569	5/1991	Japan .
3-118573	5/1991	Japan 355/260

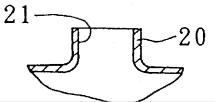
Primary Examiner—William J. Royer Attorney, Agent, or Firm—Birch, Stewart, Kolasch & Birch

[57] ABSTRACT

A cover 10 is provided to cover the opening of a toner container 2. The cover 10 is attachable to, and detachable from, the toner container 2. A valve element 12 capable of closing the opening 11 formed in the cover 10 is pressed up to an opening position by a pressing-up portion 20 provided on a developing apparatus side. Shifting of the valve element 12 to the opening position makes it possible to supply the toner from the toner container 2 to the developing apparatus.

#### 8 Claims, 18 Drawing Sheets

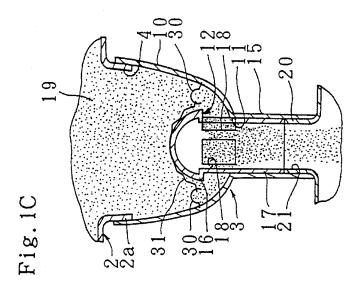


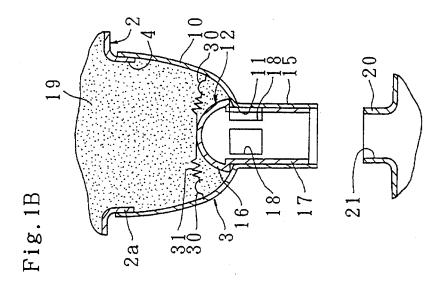


GPI EXHIBIT 1006 GENERAL PLASTIC v. CANON IPR2016-01361



5,481,344





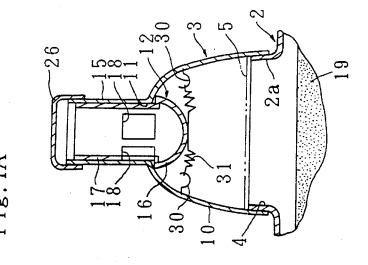


Fig. 2

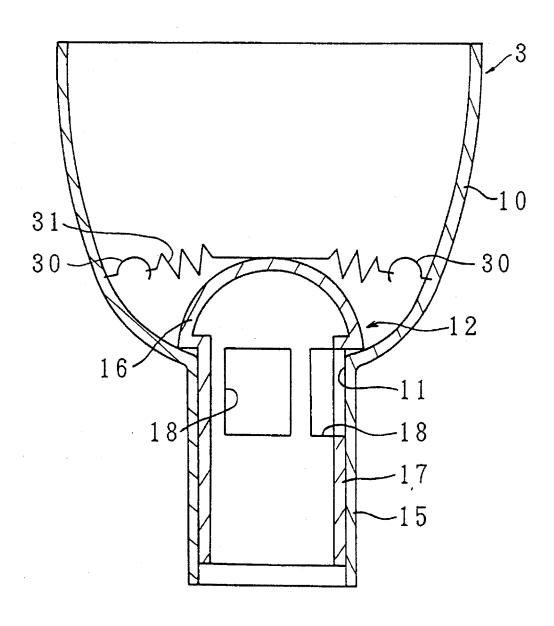


Fig. 3

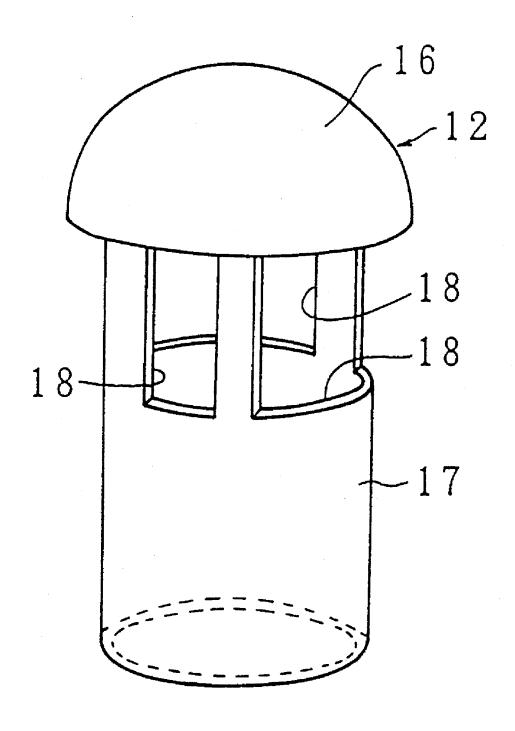
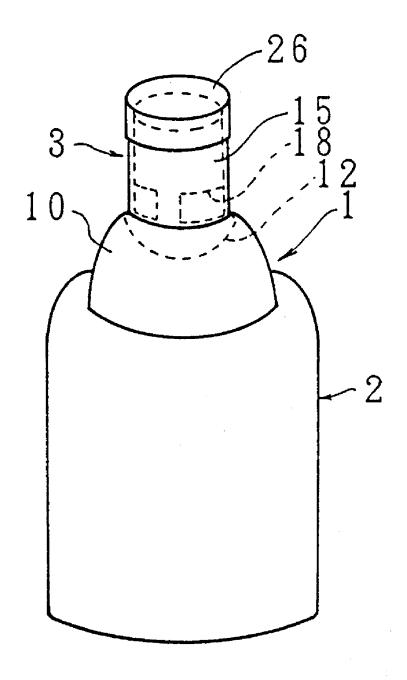




Fig. 4



# DOCKET A L A R M

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

