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Matsuoka et al.

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[30]

[56]

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[JP]

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[11] Patent Number: 5,903,806 [45] Date of Patent: May 11, 1999

[54]		PING AGENT REPLENISHING FUS AND CARTRIDGE	5,495,323	2/1996	Yasuda et al	
[75]	Inventors:	Isao Matsuoka; Yozo Fujii, both of Hachioji, Japan	5,589,919	12/1996	Tatsumi et al	
[73]	Assignee:	Konica Corporation, Tokyo, Japan	5,765,079	6/1998	Yoshiki et al	

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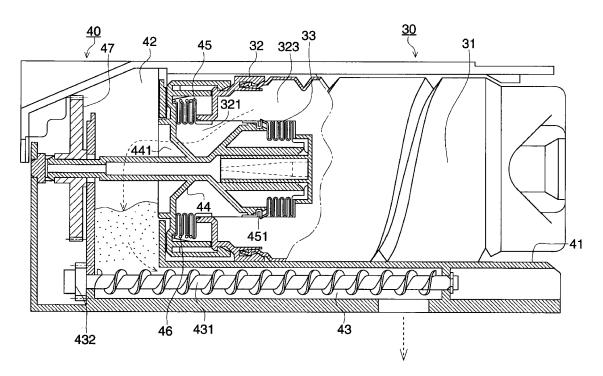
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Attorney, Agent, or Firm—Frishauf, Holtz, Goodman,
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[57] ABSTRACT

A developing agent replenishing apparatus includes a developing agent receiving port for receiving a developing agent from a replenishment cartridge which stores developing agent when the cartridge is mounted and a conveyor for conveying the developing agent received in the receiving port to a developing device. The developer agent receiving port has a receiving opening and the replenishment cartridge has a replenishment opening. Cylindrical expandable covers are provided at the receiving and replenishment openings for opening or closing these openings.

39 Claims, 19 Drawing Sheets



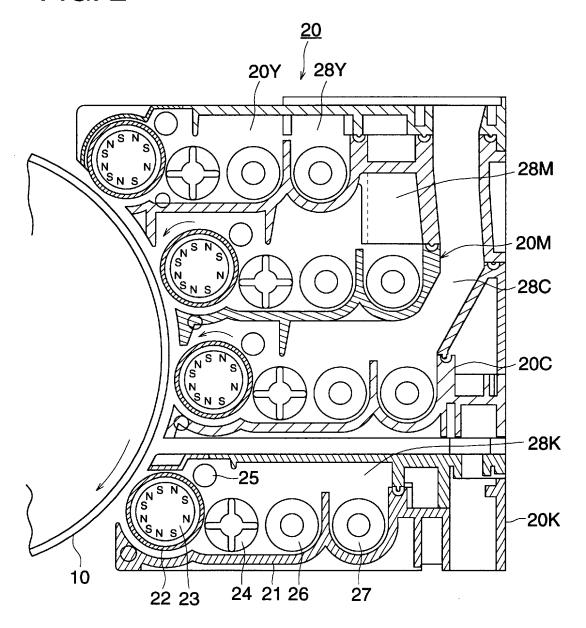
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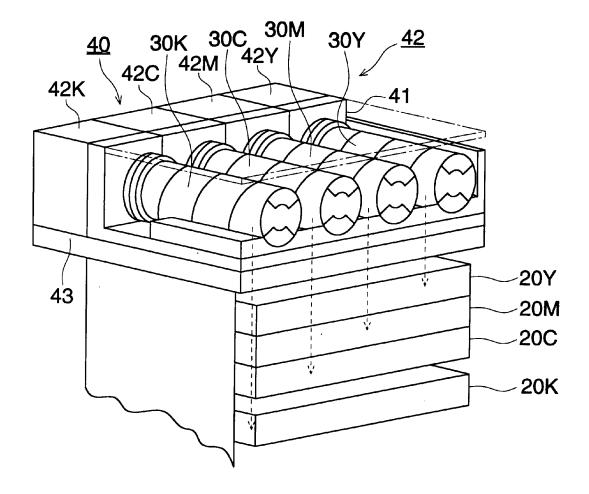
FIG. 2



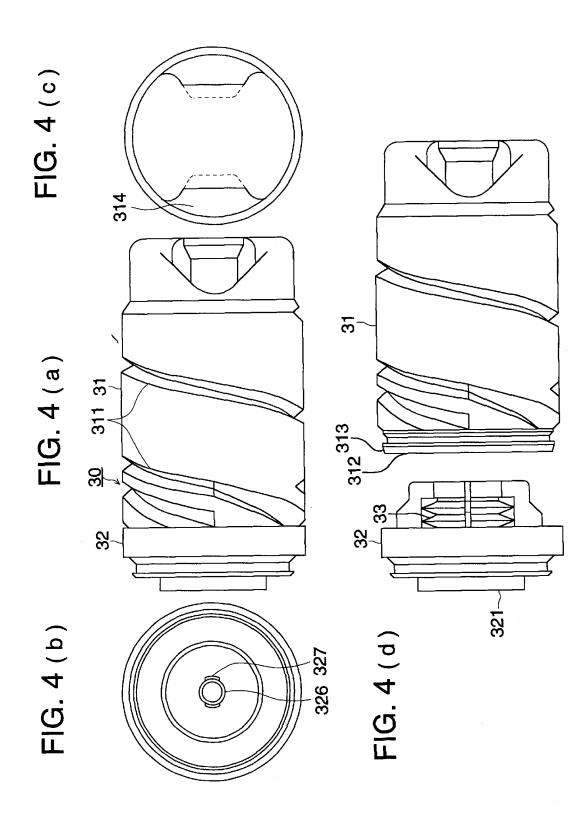


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FIG. 3







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