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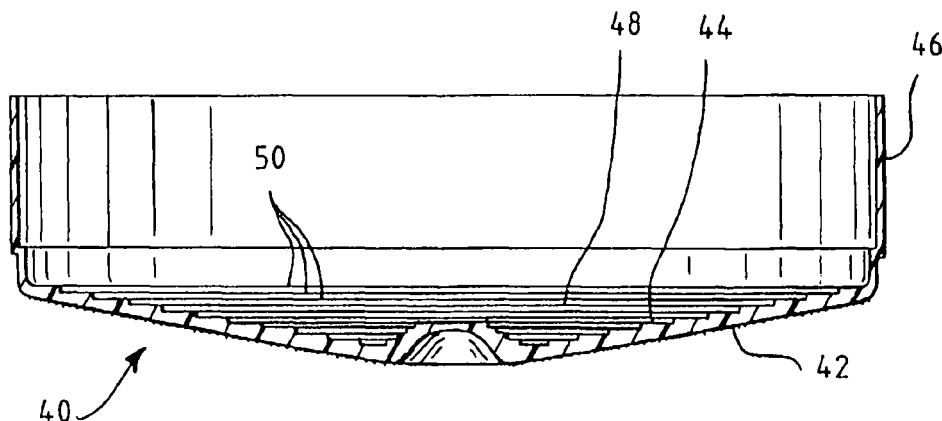
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(54) Title: STEPPED PLUNGER FOR USE WITH AN ULTRASONIC SENSOR



(57) Abstract: An improved plunger (40) for fluid dispensing cartridges used in automated dispensing systems. The plunger (40) helps control the reflection of ultrasonic signals used to sense the position of the plunger (40) as it moves within the cartridge tube (60). The plunger (40) has a convex bottom, ink-facing surface (42) and a top surface (48) comprising one or more flat, horizontal surfaces. In the preferred embodiment, the horizontal surfaces are concentric steps (50).

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ACTION

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