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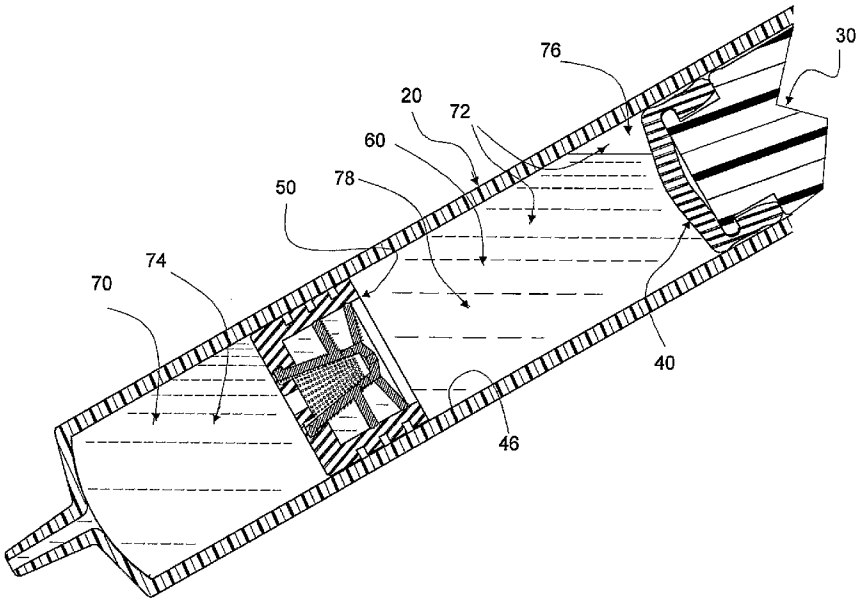
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(54) Title: MULTI-CHAMBER SEQUENTIAL DOSE DISPENSING SYRINGE



(57) Abstract: A valve assembly is disclosed which partitions a syringe into proximal and distal chambers to provide a multi-chamber, sequentially dispensing syringe apparatus. The valve assembly has a valved stopper, an impact sensor which opens the valve upon impact between the valve assembly and internal distal end of the syringe and a gas separator which separates liquid from from gas disposed in the proximal chamber to assure gas is not delivered therefrom. The valve assembly is in fluid communicating with an associated syringe plunger and is displaced thereby. The valve assembly may be made from two parts. One part, a valved stopper, may be molded from rubber based material used in syringe plunger stoppers. The second part, the valve actuator, may be injection molded.

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