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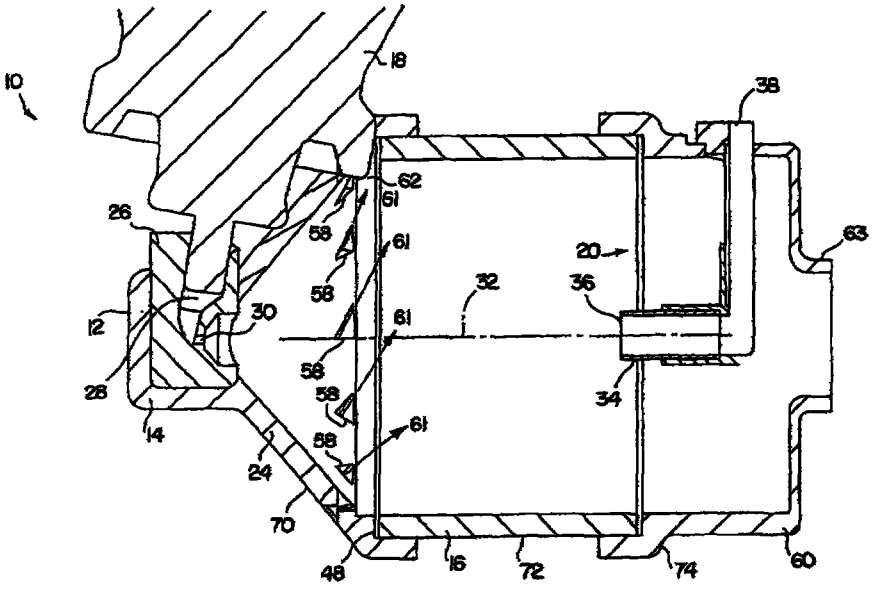
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(54) Title: INTERNAL VORTEX MECHANISM FOR INHALER DEVICE



(57) Abstract: A metered dose inhaler for use with a pressurized aerosol canister includes a housing defining a conduit with a mouthpiece, and an actuator with a nozzle discharge orifice arranged to discharge aerosol into the conduit. Vortex generators positioned within the wall of the conduit and in fluid communication with air inlets for receiving ambient outside air, provide the inner wall of the conduit with a circumferential-swirling turbulent boundary layer flow to minimize impaction of medication on the inner surfaces of the conduit.

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