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(54) **Title**: FLUID DELIVERY DEVICE NEEDLE RETRACTION MECHANISMS, CARTRIDGES AND EXPANDABLE HYDRAULIC FLUID SEALS

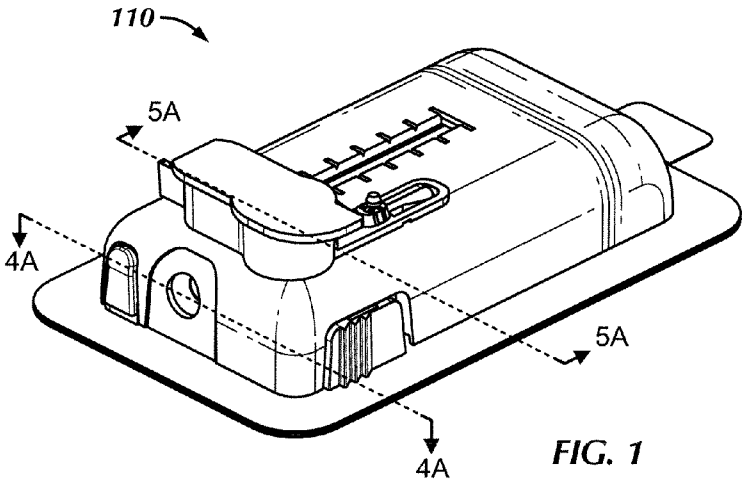


FIG. 1

(57) **Abstract**: A fluid delivery device includes an automatic needle retraction mechanism configured to automatically retract a delivery end of a needle into a housing. In one embodiment, the needle assembly is configured to automatically withdraw the delivery end of the needle into the housing upon an actuator moving from the first position to the second position. In one embodiment, the needle assembly is configured to automatically withdraw the delivery end of the needle into the housing upon decoupling a bottom surface of the housing from a skin surface.

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