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(54) Title: MECHANICAL INTERLOCK SYSTEM FOR A FILTER

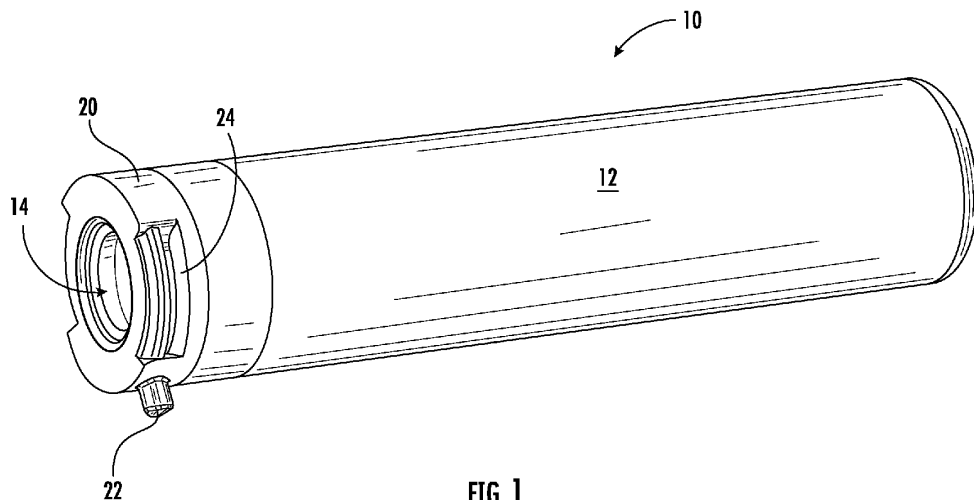


FIG. 1

(57) Abstract: A mechanical interlock system for a fluid filter is described herein. The mechanical interlock system may include a filter cartridge and a manifold for receiving the filter cartridge. The filter cartridge may include a filter body, a fluid inlet and outlet, and an integrated locking head. The integrated locking head may include a key extending radially outward from the integrated locking head and displaceable latch features. The manifold may include an extraction guide for receiving the key. The extraction guide may include a primary keyway and a secondary keyway. The key, keyways, displaceable latch features, and/or receptacles may interact to maintain alignment of the filter cartridge during insertion of the filter cartridge into an appliance including the manifold.

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