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(54) Title: SYSTEM AND METHOD FOR SYRINGE PLUNGER ENGAGEMENT WITH AN INJECTOR

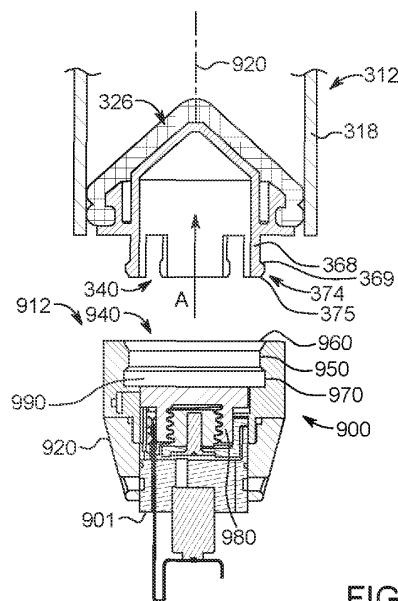


FIG. 23A

(57) Abstract: A plunger (326) for use with a syringe includes a plunger body (332) defining a central longitudinal axis (334) and having a proximal end (336), a distal end (338), and a circumferential sidewall (339) connecting the proximal end and the distal end. The plunger further includes at least one retaining member (368) associated with and extending proximally from the plunger body. The at least one retaining member has a first end connected to the plunger body, a second end proximal to the first end and radially and resiliently deflectable relative to the first end, and at least one catch (374) on the second end. A fluid injector system includes a piston (400) having a plunger engagement mechanism configured for interacting with the at least one retaining element of the plunger to releasably engage the plunger for reciprocally driving the plunger within a barrel of the syringe.

[Continued on next page]

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