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[Continued on next page]

(54) Title: VALVE ASSEMBLY AND SYSTEM

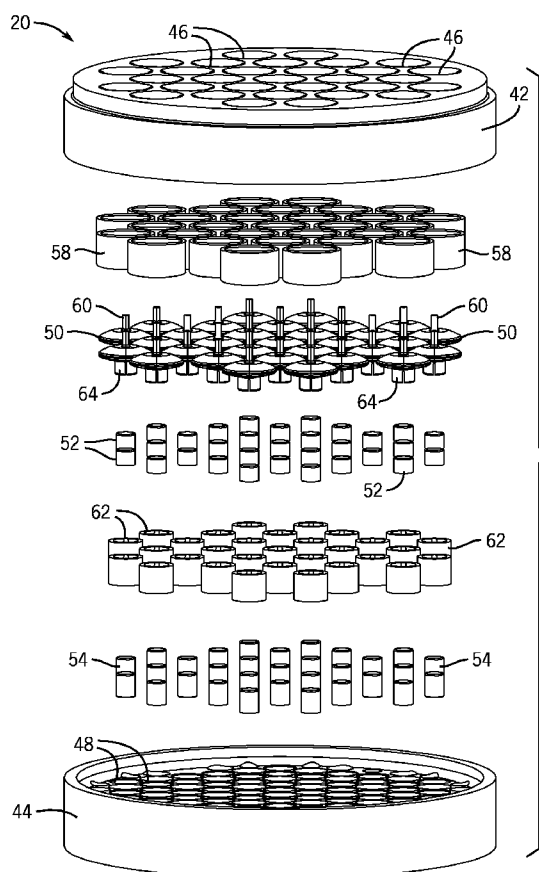


FIG. 4

(57) Abstract: The valve assembly (20) includes a seat plate (42) that includes a fluid conduit (46) and an impact bushing (58) that is coupled to the seat plate at a position adjacent to the fluid conduit. The valve assembly also includes a sealing assembly that is configured to form a seal with the impact bushing and to control flow of a fluid through the fluid conduit via relative displacement of the sealing assembly from the impact bushing. Systems and methods related to such a valve assembly are also disclosed.

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