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(54) Title: FLUID TO FLUID PRESSURIZER AND METHOD OF OPERATING THE SAME

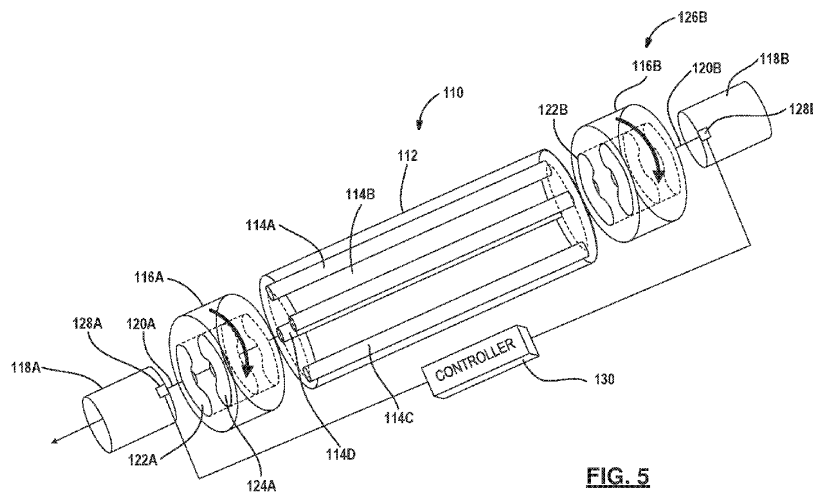


FIG. 5

(57) **Abstract:** A fluid to fluid pressurizer includes an elongated stationary portion comprising a plurality of flow channels, said stationary portion comprising a first face at a first end and a second face at a second end. A first and second rotor housing are disposed adjacent to the end of the elongated stationary portion and have a fluid inlet fluidically coupled to respective first and second annular channels. A first and second rotary valve plates are in the housings and have inlet valve ports coupling the fluid inlet to the plurality of flow channels and outlet valve ports fluidically coupling the flow channels to adjacent the rotor faces. The rotary valve plates have sealing surfaces adjacent the stator faces. Annular seals are disposed between the rotor housings and the rotary valve plate between the annular channels. A motor or motors rotate the rotary valve plates within the housings.

[Continued on next page]

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