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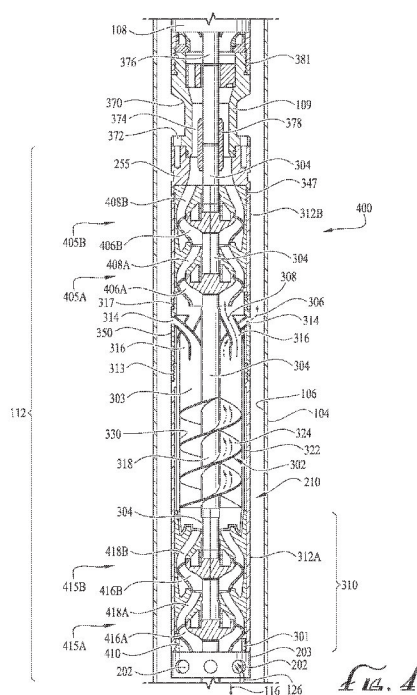
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(54) Title: INTEGRATED GAS SEPARATOR AND PUMP



(57) Abstract: A downhole gas separator and pump assembly. The downhole gas separator and pump assembly comprises a drive shaft; a first fluid mover having an inlet and an outlet; a separation chamber located downstream of the first fluid mover and fluidically coupled to the outlet of the first fluid mover; a gas flow path and liquid flow path separator located downstream of the separation chamber, having an inlet fluidically coupled to the separation chamber, having a gas phase discharge port open to an exterior of the assembly, and having a liquid phase discharge port; and a second fluid mover mechanically coupled to the drive shaft, located downstream of the first gas flow path and liquid flow path separator, and having an inlet fluidically coupled to the fluid phase discharge port of the first gas flow path and liquid flow path separator.

Declarations under Rule 4.17:

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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