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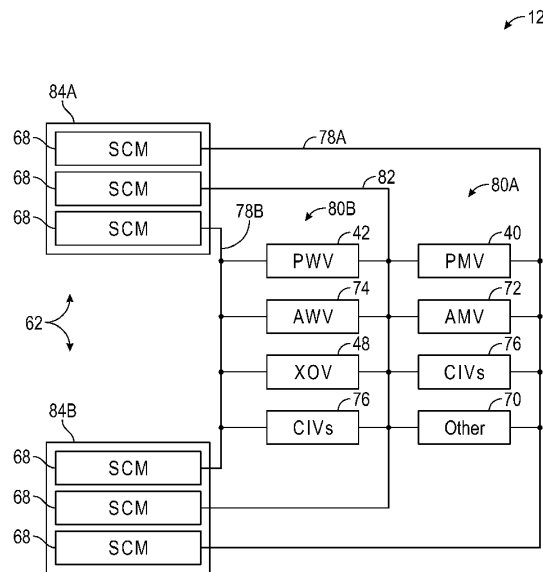


FIG. 3

(57) Abstract: A subsea production system may include a subsea tree that includes a first valve to control a flow of reservoir fluid through the subsea tree and a second valve to control the flow of the reservoir fluid through the subsea tree. The subsea production system may also include a bus system having multiple control modules that generate control signals to operate the first valve and the second valve. The bus system may also include a first electric bus that provides the control signals from a first control module to the first valve, a second electric bus that provides the control signals from a second control module to the second valve, and a third electric bus that provides the control signals from a third control module to the first valve and the second valve.

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