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(54) **Apparatus and method for operating a subsea compression system in a well stream**

(57) Method for operating a subsea compression system and a subsea compression system in a well stream are disclosed. The subsea compression system comprising a compressor (1) and an electromotor driven pump (2), wherein the compressor is operable for compression of gas and the pump is operable for pumping liquid from the compression system. Compressed gas is recycled from the compressor downstream side to the upstream side of the compressor via a turbo-expander unit (10) which is drivingly connected to a generator (17). The generator is configured to supply charging current to a battery (18) in response to recycling of compressed gas via the turbo-expander unit, wherein the pump is operable on electrical power that is supplied from the battery.

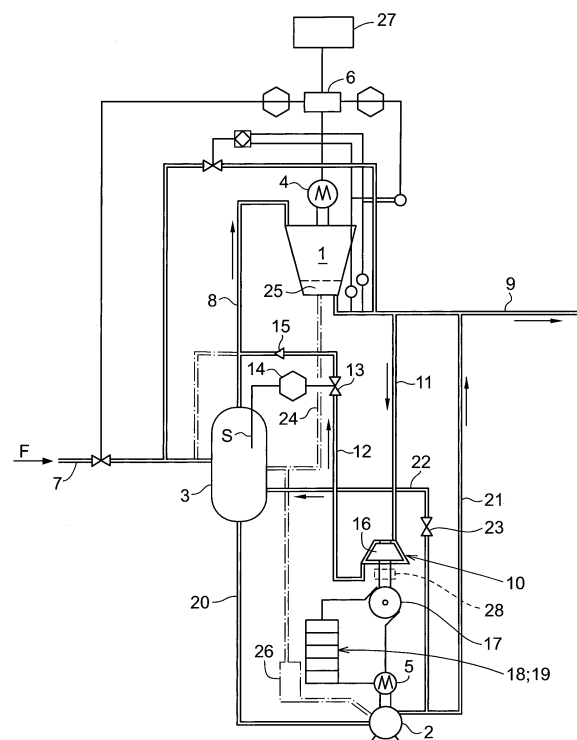


Fig. 3



EUROPEAN SEARCH REPORT

Application Number
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			TECHNICAL FIELDS SEARCHED (IPC)
			E21B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 14 August 2015	Examiner Bellingacci, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82