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(54) A method and a system for drain liquid collection and evacution in a subsea compression system

(57) A system and a method for drain liquid collection and evacuation in a subsea compression system using a compressor (1) is disclosed, wherein an external drainage tank (10) is arranged in direct flow communication with the compressor sump via a sump evacuation valve (12). The drainage tank can be set under compressor discharge pressure (17, 18) via a tank pressurizing line (18) arranged to connect the drainage tank to a compressor discharge flow (7) upstream of a throttle valve (21), and a tank evacuation line (20) is arranged to connect the drainage tank to the compressor discharge flow (7) downstream of the throttle valve (21). Drain liquid evacuation is accomplished through generation, by adjusting the throttle valve (21), of a flow restriction in the compressor discharge flow (7) while setting the drainage tank under compressor discharge pressure by opening of the pressure valve (17) and permitting drain liquid flow into a reduced compressor discharge pressure downstream the throttle valve (21) by opening an evacuation valve (19) in the evacuation line (20).

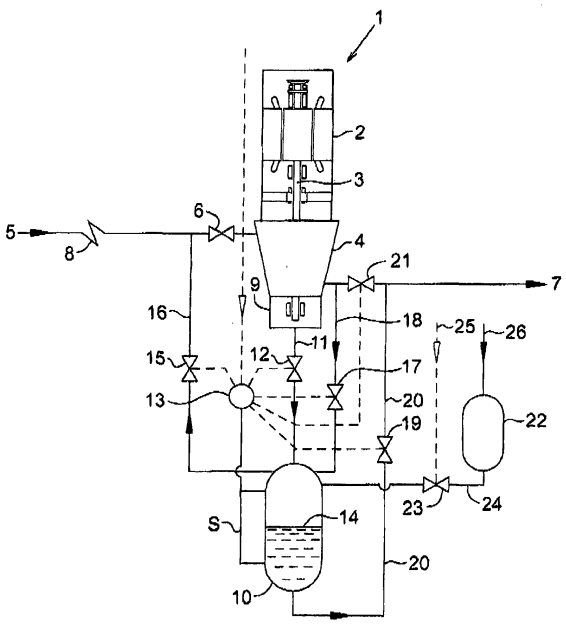


Fig. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 14 00 1520

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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