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(54) Title: MODULARIZED SUBSEA SEAWATER DESALINATION SYSTEM

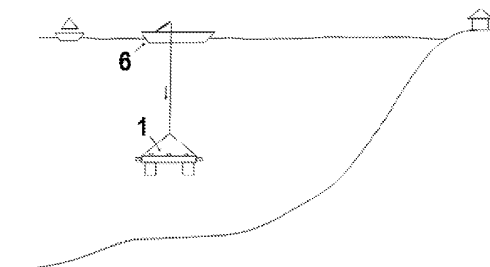


Fig. 1

(57) Abstract: The present invention relates to a modularized subsea desalination system. A subsea desalination template includes subsea desalination module zones 41 and module fluid couplings 46. A desalinated water outlet is in fluid connection with the module fluid coupling 46 in the subsea desalination module zone. Subsea desalination modules 5 with reverse osmosis cartridges 23 are in fluid connection with a subsea template fluid coupling 47, a seawater inlet section and a concentrated seawater outlet section. A transport pump assembly 48 for desalinated water in a pump module 17 is in fluid connection with the subsea desalination template 1 and the desalination modules 5. A seawater circulation pump 49 is in fluid connection with a seawater side of the at least one reverse osmosis cartridge 23. A desalinated water pipeline 2 convey fluid from the desalinated water transport pump assembly 48 to a location above a sea level. Furthermore, the invention relates to a subsea desalination module 5 and a method exchanging a subsea desalination module 5 requiring service.

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