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(54) Title: SYSTEMS AND METHODS FOR MONITORING A SUBSEA ENVIRONMENT

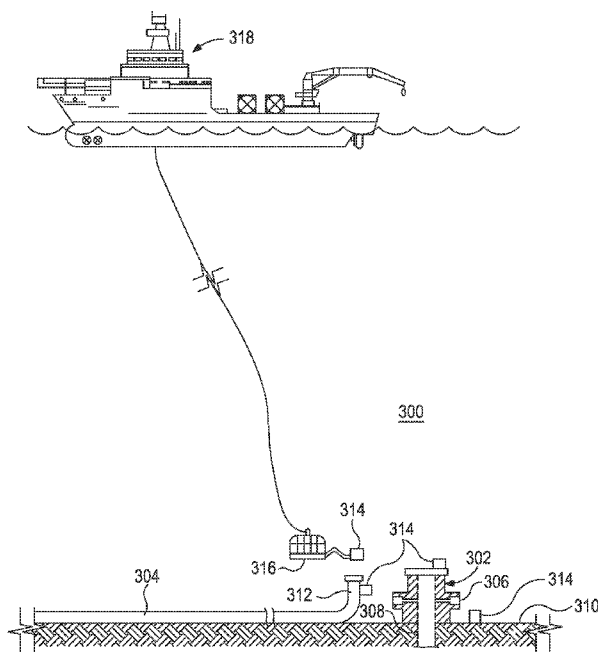


FIG. 3

(57) Abstract: Disclosed are systems and methods for monitoring an oceanic environment (300) for hazardous substances. One system includes one or more subsea equipment (302, 304) arranged in an oceanic environment (300), and at least one optical computing device (314) arranged on or near the one or more subsea equipment (302, 304) for monitoring the oceanic environment. The at least one optical computing device (314) may have at least one integrated computational element configured to optically interact with the oceanic environment (300) and thereby generate optically interacted light. At least one detector (212; 420, 424) may be arranged to receive the optically interacted light and generate an output signal (422) corresponding to a characteristic of the oceanic environment (300).



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