

Method and system for simulating marine assets as well as an arrangement including the system

5 ABSTRACT

A method is presented for simulating marine assets (MA) in an offshore operation. The marine assets comprise at least an anchor (1), a line (3) coupling the anchor (1) with a winch (9), and a support platform (10) located offshore for supporting the winch. The method involves a computation stage for estimating a state of the marine assets using a computational model and received sensor data (Ds) pertaining to a state of the marine assets and/or of an environment (ME) wherein the marine assets are used. The computational model of the marine assets (MA) includes at least a specification (21A) of an anchor (1), a specification (21C) of a winch (9) and a specification (21B) of a line (3) coupling the anchor with the winch (9). The at least a line is modelled as a first portion (3a) extending between the winch (9) and a touch-down point (4) where the line (3) touches the seabed (52) and a second portion (3b) extending between the touch-down point (4) and the anchor (1). Additionally a simulation system is presented for simulating the marine asset, and an arrangement including the marine asset and the simulation system.

(Fig. 1)