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(71) Applicant: **MACGREGOR NORWAY AS** [NO/NO];
Kystveien 18, 4841 ARENDAL (NO).

(72) Inventors: **TØRDAL, Sondre-Sanden**; Nygaten 1, 4876
GRIMSTAD (NO). **HØVIK, Jon**; Timberstrand 28, 4818
FÆRVIK (NO).

(74) Agent: **ONSAGERS AS**; P. O. Box 1813 Vika, 0123 Oslo
(NO).

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(54) Title: PILE INSTALLATION FACILITY AND METHODS THEREOF

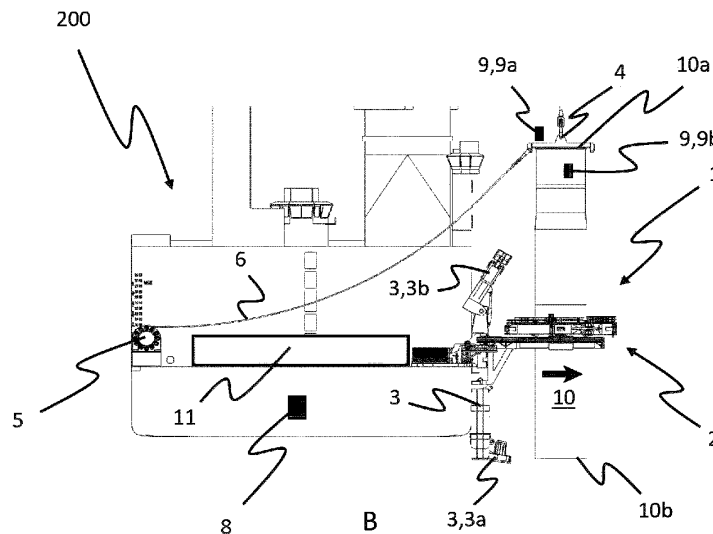


FIG. 07

(57) Abstract: The invention concerns an installation facility for installing a pile (10) in a vertical orientation on a target pile position into a seabed and methods thereof. The installation facility comprising a vessel (200) comprising a deck for storing a plurality of piles (10), a lifting crane (400) fixed to the vessel, a global positioning system for receiving global positioning coordinates, a vessel motion sensor (8) and an installation tool (2) fixed to an outer boundary of the deck for installation of the pile onto the seabed. The installation tool (2) further comprises a pile motion sensor (9) for measuring the movements of the pile relative to the global positioning coordinates at the target pile position and a pile gripper allowing dampening of pile movements.

[Continued on next page]

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