Claims

1.

A deck hoist tractor (DHT) for an unmanned platform (1) comprising an elongated base frame structure (12) carrying respective caterpillar drives (18) on each side enabling the tractor (2) to move forward and rearward, c h a r a c t e r i s e d i n that the tractor (2) further comprising a tower frame structure (10) extending in substantially vertical direction from one end section of the base frame structure (12), which tower frame structure (10) is carrying a cantilevered top frame structure (11) carrying a lifting apparatus (22, 21), said caterpillar drives (18) are located at the same end section as said top frame structure (11), that said base frame structure (12) is extended by respective cantilevered beams (12a) space apart with an opening between them, each cantilevered beam (12) having an adjustable support structure (19) adjacent to their distal end (12b) from the caterpillar drive (18), said cantilevered top frame structure (11) is extended to vertically correspond with said respective cantilevered beams (12a), and said lifting apparatus (20, 21) is arranged to be shifted both forward and rearward, in addition to laterally in said top frame structure in order to position a load supported in the lifting apparatus.

2.

The deck hoist tractor according to claim 1, wherein the tractor (2) comprising a non– ignitable propulsions system configured to operate the motion of the tractor (2) and/or the lifting apparatus (20, 21).

3.

The deck hoist tractor according to claim 2, wherein non-ignitable propulsion system (not shown) is configured to operate the motion of the at least one support structure (19).

4.

The deck hoist tractor according to any one of claims 1-3, wherein the non-ignitable propulsion system comprises a pressurized air system powering a hydraulic system.

5.

The deck hoist tractor according to any one of claims 1-4, wherein the lifting apparatus (20, 21) comprising a positioning apparatus (20) for moving the load in the plane parallel with the top frame structure (11) and a hoisting apparatus (21) for moving the load in a plane perpendicular to the top frame tower structure (11) of the tractor (2).

6.

The deck hoist tractor according claim 5, wherein the hoisting apparatus (21) comprising a first winch system (24, 25, 26, 26, 27) and a redundant second winch system (not shown) for operation if the first winch system fails (24, 25, 26, 27).

7.

The deck hoist tractor according to any one of claim 1-6, wherein the tractor (2) comprising four support structures (19) arranged respectively at each distal end of the cantilevered beams (12a) and at the opposite end section of the base frame (12), said support structures (19) are adapted to secure the tractor (2) when the tractor (2) is performing a lifting operation in order to prevent the tractor (2) from tipping.

8.

The deck hoist tractor according to any one of the claims 1-7, wherein the space between the cantilevered beams (12a) corresponds to the opening of a hatchway in the platform (1) so that the respective cantilevered beams (12a) are adapted to be positioned at opposite sides of the hatchway.

9.

Use of a deck hoist tractor according to any one of claims 1-8 for hoisting a load through a hatchway opening (5a) in an unmanned platform (1).

10.

Use of a deck hoist tractor according to claim 9, wherein the load (6) is a Christmas tree 6a, a conductor cutting 6b or other well completion materials.