C L A I M S

1. Vessel (1) comprising a hull (2) and a spud pole assembly (20), wherein the spud pole assembly comprises a base frame (21), a spud pole holder (61) that is pivotably connected to the base frame, an elongate spud pole (60) that is guided by the spud pole holder to be hoisted and lowered in its elongate direction with respect to the hull, a first hydraulic cylinder (78) that is at its first side pivotably connected to the base frame (21) and at its operative opposite second side pivotably connected to the spud pole holder (61) to pivot the spud pole holder and the spud pole with respect to the base frame, and a clamping assembly (90) to clamp the spud pole, wherein the spud pole assembly (20) is able to switch between a turn over mode and a hoisting mode, wherein in the turn over mode the position of the pivot between the first side of the hydraulic cylinder (78) and the spud pole holder (61) is fixed with respect to the spud pole holder whereby the extension or retraction of first hydraulic cylinder (78) pivots the spud pole holder (61) and the spud pole (60) with respect to the base frame (21), wherein the clamping assembly is operatively connected to the first side of the first hydraulic cylinder (78), wherein in the hoisting mode the pivot between the first side of the hydraulic cylinder (78) and the spud pole holder (61) is displaceable with respect to the spud pole holder (61) whereby the extension or retraction of the first hydraulic cylinder (78) lowers or hoists the operatively connected clamping assembly (90) with respect to the base frame (21).

2. Vessel (1) according to claim 1, wherein the clamping assembly (20) is operatively connected to the first side of the first hydraulic cylinder (78) by a first hoisting cable (80) that is guided along a hoisting sheave (81) on the spud pole holder (61), wherein the hoisting

sheave is located above the clamping assembly (20) and the first side of the first hydraulic cylinder (78).

3. Vessel (1) according to any one of the preceding claims, wherein the spud pole assembly (20) comprises a first rail (75) that is connected to the spud pole holder (61), a slider (76) that is slidable along the first rail, and a first releasable lock between the slider (78) and the first rail (75) to lock the sliding movement (F) of the slider (76) along the first rail (75), wherein the first side of the first hydraulic cylinder (78) is pivotably connected to the slider (76) and the clamping assembly (20) is operatively connected to the slider, wherein in the turn over mode the first lock is locked and in the hoisting mode the first lock is released.

4. Vessel (1) according to any one of the preceding claims, wherein the spud pole holder (61) comprises a tilting frame (62) with a first passage (63) for the spud pole (60) that is pivotably connected to the base frame (21), wherein the spud pole assembly (20) comprises a second releasable lock between the tilting frame (62) and the spud pole (60) to lock the movement of the spud pole in its elongate direction with respect to the tilting frame, and/or wherein the spud pole holder (61) comprises a tilting frame (62) with a first passage (63) for the spud pole (60) that is pivotably connected to the base frame (21), wherein the spud pole assembly (20) comprises a third releasable lock between the tilting frame (62) and the base frame (21) to lock the pivoting movement of the tilting frame with respect to the base frame, and/or wherein the spud pole holder (61) comprises a tilting frame (62) with a first passage (63) for the spud pole (60) that is pivotably connected to the base frame (21), and a yoke (70) that is pivotably connected to the tilting frame (62) or to the base frame (62), wherein the yoke (70) comprises an engagement end (72) for engagement of the spud pole (60) spaced apart from the tilting frame (62), wherein the first side of the first hydraulic cylinder (78) is pivotably

connected to the yoke, wherein preferably the clamping assembly (90) is reciprocally movable by the first hydraulic cylinder (78) between the tilting frame (62) and the engagement end (72) of the yoke (70).

5. Vessel (1) according to claims 2 and 4, wherein the hoisting sheave (81) is mounted to the yoke (70), wherein preferably the clamping assembly (90) is reciprocally movable by the first hydraulic cylinder (78) between the tilting frame (62) and the engagement end (72) of the yoke (70).

6. Vessel (1) according to any one of the preceding claims, wherein the clamping assembly (90) comprises a passage for the spud pole (60), which passage is bounded by a first clamping face (91, 93) and a second clamping face (92, 93) that are opposite to each other transverse to the longitudinal direction of the spud pole (60), wherein the clamping assembly (90) is movable between a first position and a second position with respect to the spud pole (60), wherein in the first position the first clamping face (91, 93) and the second clamping face (92, 93) together keep a clearance with respect to the spud pole (60) and wherein in the second position the first clamping face (91, 93) and the second clamping face (92, 93) together tightly engage the spud pole (60), wherein preferably in the second position the first clamping face (91, 93) is raised with respect to the second clamping face (92, 93) in the longitudinal direction of the spud pole (60).

7. Vessel (1) according to claim 6, wherein the clamping assembly (90) comprises a master clamp (91) with the first clamping face (91, 93), a slave clamp (92) with the second clamping face (92, 93) and pairs of parallel tensioning rods (94) that are pivotably connected to the master clamp (92) and the slave clamp (93) to form a parallelogram mechanism therewith.

8. Vessel (1) according to any one of the preceding claims, wherein in the turn over mode the spud

pole holder (61) with the spud pole (60) is pivotable by the first hydraulic cylinder (78) between a vertical position in which the spud pole (60) extends substantially vertical and horizontal position in which the spud pole (60) extends substantially horizontal.

9. Vessel (1) according to any one of the preceding claims, wherein in the hoisting mode the center line of the first hydraulic cylinder (78) extends under an angle of less than 20 degrees with respect to the center line of the spud pole (60).

10. Vessel (1) according to any one of the preceding claims, wherein in the hoisting mode the clamping assembly (90) is hoisted by retraction of the first hydraulic cylinder (78).

11. Vessel (1) according to any one of the preceding claims, wherein the spud pole (60) is connected to or suspended from a second hoisting cable (82) that is connected to a hoisting winch.

12. Vessel (1) according to any one of the preceding claims, wherein the hull (2) comprises an elongate well (5), wherein the base frame (21) is movable along second rails (7) that extend horizontally along the well, wherein the vessel comprises a second hydraulic cylinder between the hull (2) and the base frame (21) to move the base frame along the second rails (7).

13. Vessel (1) according to any one of the preceding claims, wherein the vessel (1) is a dredging vessel.

14. Method for hoisting an elongate spud pole (60) of a vessel (1), wherein the vessel comprises a hull (2) and a spud pole assembly (20), wherein the spud pole assembly comprises a base frame, a spud pole holder (61) that is pivotably connected to the base frame, wherein the spud pole (60) is guided by the spud pole holder to be hoisted and lowered in its elongate direction with respect to the hull, a first hydraulic cylinder (78) that is at its first side pivotably connected to the base frame (21) and

at its operative opposite second side pivotably connected to the spud pole holder (61) to pivot the spud pole holder and the spud pole with respect to the base frame, and a clamping assembly (90) to clamp the spud pole, wherein the spud pole assembly (20) is able to switch between a turn over mode and a hoisting mode, wherein in the turn over mode the position of the pivot between the first side of the hydraulic cylinder (78) and the spud pole holder (61) is fixed with respect to the spud pole holder whereby the extension or retraction of first hydraulic cylinder (78) pivots the spud pole holder (61) and the spud pole (60) with respect to the base frame (21), wherein the clamping assembly is operatively connected to the first side of the first hydraulic cylinder (78), wherein in the hoisting mode the pivot between the first side of the hydraulic cylinder (78) and the spud pole holder (61) is displaceable with respect to the spud pole holder (61) whereby the extension or retraction of the first hydraulic cylinder (78) lowers or hoists the operatively connected clamping assembly (20) with respect to the base frame (21), wherein the method comprises switching to the hoisting mode when the spud pole (60) is turned upright, and hoisting the clamping assembly (90) by means of the first hydraulic cylinder (78) after engagement of the spud pole (60).

15. Method according to claim 14, wherein the clamping assembly (90) comprises a passage for the spud pole (60), which passage is bounded by a first clamping face (91, 93) and a second clamping face (92, 93) that are located opposite to each other transverse to the longitudinal direction of the spud pole (60), wherein the first hydraulic cylinder (78) is operatively connected to the first clamping face (91, 93), wherein the method comprises hoisting the first clamping face (91, 93) with respect to the second clamping face (92, 93) in the longitudinal direction of the spud pole (60) whereby the first clamping face (91, 93) and the second clamping face (92, 93) together tightly engage the spud pole (60) to

enter in a force close engagement with it.