C L A I M S

1. Heave compensated crane mounted on a vessel, comprising a lower vertical beam (10) and an upper horizontal beam (12) which are mutually connected via an articulated piece (20), as the vertical beam is connected at the bottom to a base (14), which in turn comprises a slew ring for rotation of the crane about a vertical axis, and a strut (22) is arranged between the base (14) and the articulated piece (20), at a distance from the lower vertical beam (10) and largely in parallel with this in a normal position for the crane, and that the lower vertical beam (10) is driven by at least one cylinder (18), and the upper horizontal beam (12) in its movement in relation to the lower vertical beam (10) is driven by an intermediate cylinder arrangement (16), c h a r a c t e r i s e d i n that

the intermediate cylinder arrangement (16) comprises at least one single working cylinder (30) and at least one double working cylinder (32), adapted for heave compensating of the crane due to vessel movement,

during heave compensated operation a connection between the double working cylinder (32) to an accumulator (34) is open, as a closing valve (40a) between the double working cylinder (32) and the accumulator (34) is open, and a closing valve (42a) between the double working cylinder (32) and a hydraulic control valve (50) is closed, while during normal operation the closing valve (40a) between the double working cylinder (32) and the accumulator (34) is closed, wherein the intermediate cylinder arrangement (16) is arranged for operation of the upper horizontal beam (12), and

during heave compensated operation a piston side of the single working cylinder (30) is pressurised, and a piston side of the double working cylinder (32) is passive

while the rod side is active, while during normal operation both the piston side the single working cylinder (30) and the piston side of the double working cylinder (32) are pressurised.

2. Crane according to claim 1, c h a r a c t e r i s e d i n that during heave compensation the single working cylinder (30) is arranged to lift the upper horizontal beam (12) and the at least one double working cylinder (32) is arranged to lower the upper horizontal beam (12) by activating the rod side (32b) of the double working cylinder.

3. Crane according to claim 1, c h a r a c t e r i s e d i n that the intermediate cylinder arrangement (16) comprises a centrally placed single working cylinder (30) and two side mounted double working cylinders (32), where the double working cylinders are connected to a respective accumulator (34).

4. Crane according to claim 3, c h a r a c t e r i s e d i n that said accumulators (34) and any associated gas reservoir (36) are integrated with respective cylinders (30, 32).