Claims

1. An assembly method for a crane which includes:

a lower travelling body capable of travelling on a travelling surface;

an upper slewing body on the lower travelling body, the upper slewing body being slewably supported by the lower travelling body within a plane parallel to the travelling surface;

a boom having a boom base end coupled to the upper slewing body and a boom front end located opposite to the boom base end, the boom being supported by the upper slewing body so as to be capable of rising and falling;

a jib having a jib base end coupled to the boom front end and a jib front end located opposite to the jib base end and supporting a load-suspending cable, the jib being supported by the boom so as to be capable of rising and falling; and

at least one strut having a strut base end rotatably coupled to the jib base end or the boom front end, the at least one strut having a strut front end located opposite to the strut base end, the strut front end being connected to the jib front end at least via a front side guy line,

the method comprising:

a struct coupling step of rotatably coupling the strut base end of the at least one strut to the jib base end or the boom front end;

a cylinder connecting step of extending a cylinder unit having one end supported by one structure that is one of the at least one strut and the boom, and the other end opposite to the one end, the cylinder unit being capable of extending/contracting, to connect the other end of the cylinder unit to the other structure that is one of the at least one strut and the boom and different from the one structure;

a strut raising step of causing the cylinder unit to contract to raise the at least one strut with the strut base end as a fulcrum;

a strut supporting step of stretching a stretching member between the strut front end of the at least one strut and a specific part of the boom, the specific part being closer to the boom base end than the boom front end, to support the at least one strut in a raised state; and

a rail laying step of laying a rail on the other structure,

wherein the cylinder connecting step includes causing the other end of the cylinder unit to keep moving on the rail as a result of extension of the cylinder unit until reaching a position where the other end is connected to the other structure.

2. The assembly method for a crane according to claim 1, wherein

the rail laying step includes providing the rail or the other end of the cylinder unit with a guide, and

the cylinder connecting step includes guiding the other end of the cylinder unit onto the rail by the guide.

3. The assembly method for a crane according to claim 2, wherein

the cylinder connecting step further include using the cylinder unit having the other end provided with a roller, and

the cylinder connecting step includes causing the roller to keep rolling on the rail as a result of extension of the cylinder unit until the other end of the cylinder unit reaches a position where the other end is connected to the other structure.

4. The assembly method for a crane according to any one of claims 1 to 3, wherein the at least one strut includes:

a front strut having a front strut base end coupled rotatably to the jib base end or the boom front end and a front strut front end located opposite to the front strut base end, the front strut front end being connected to the jib front end via a front side guy line; and

a rear strut having a rear strut base end coupled rotatably, at rear of the front strut base end, to the jib base end or the boom front end and a rear strut front end located opposite to the rear strut base end, the rear strut front end being connected to the front strut front end via a connection member,

the strut coupling step includes rotatably coupling each of the front strut base end and the rear strut base end to the jib base end or to the boom front end,

the cylinder connecting step includes, with the one end of the cylinder unit being supported by the one structure out of the rear strut and the boom, extending the cylinder unit to connect the other end of the cylinder unit to the other structure out of the rear strut and the boom,

the strut raising step includes causing the cylinder unit to contract to raise the rear strut with the rear strut base end as a fulcrum, and

the stretching step includes stretching the stretching member between the rear strut front end and the specific part of the boom and giving tension to the stretching member to support the rear strut in a raised state.

5. The assembly method for a crane according to any one of claims 1 to 4, the method further comprising a boom raising step of raising the boom with respect to the upper slewing body with the cylinder unit being interposed between the at least one strut and the boom so that the cylinder unit functions as a strut backstop that prevents the at least one strut from falling backward.