CLAIMS

1. System (1) for loading and unloading in port operations and supporting hatch covers (11) of holds of maritime vessels, wherein it comprises:

a) a crane (2) for loading and unloading of maritime operations, wherein the crane has horizontal lateral beams (7) one on each side of the body of the crane and two legs (5) with angled shaped arch, each formed by two verticals profiles and a horizontal profile base (6) wherein the main body of the crane is installed in a rear horizontal beam (9) attached to the vertical profiles of the rear leg; a front horizontal beam (10) attached to the lateral horizontal beams (7); and

b) a base located in the body of the crane to hold and stack hatch covers (11),

wherein said base is alternatively:

an inner platform (3) or an outer platform (12);

characterized in that said base is also alternatively:

an inner support (16) that is installed on the inside of the body of the crane which are attached to the lateral horizontal profiles wherein said supports are of a sufficient size to support the hatch covers (11), or

an outer cover support (13) that is installed on the outside of the body of the crane is formed by supports attached to the vertical profiles of the legs of the crane; and that it further comprises of some higher tensors (14) attached to the top of the crane.

2. Procedure for removing, stacking and returning hatch covers in a system (1) for loading and unloading in port operations and supporting hatch covers of holds of maritime vessels according to claim 1, characterized in that comprises of:

i) having a system (1) for loading and unloading and supporting hatch covers which comprises:

c) a crane (2) for loading and unloading in port operations; and

d) a base located in the body of the crane to hold and stack the hatch covers;

ii) removing the hatch cover from the hold of the maritime vessel and moving it with the trolley (8) of the crane;

iii) moving the cover and placing it on the installed base in the body of the crane; and

iv) returning the cover to the ship moving it from the said base to the ship, once the operation of loading and / or unloading is over.

CLAIMS

1. System (1) for loading and unloading in port operations and supporting hatch covers (11) of holds of maritime vessels, wherein it comprises:

a) a crane (2) for loading and unloading of maritime operations; wherein the crane has horizontal lateral beams (7), one on each side of the body of the crane, and two legs (5) with angled shaped arch, each formed by two verticals profiles and a horizontal profile base (6), wherein in the main body of the crane is installed a rear horizontal beam (9) attached to the vertical profiles of the rear leg; a front horizontal beam (10) attached to the lateral horizontal beams (7); and

b) a base located on the body of the crane to hold and stack hatch covers (11), wherein said base comprises:

an inner cover support (16) that is installed on the inside of the body of the crane, wherein the inner cover support (16) is formed by supports which are attached to the lateral horizontal beams, wherein said supports are of a sufficient size and suitably spaced to support the hatch covers (11) and also not separated by less than width of the hatch covers (11); or

an outer cover support (13) that is installed on the outside of the body of the crane (2) is formed by supports attached to the vertical profiles of the legs of the crane; and that it further comprises of some higher tensors (14) attached to the top of the crane.

2. Procedure for removing, stacking and returning hatch covers in a system (1) for loading and unloading in port operations and supporting hatch covers of holds of maritime vessels according to claim 1, characterized in that comprises of:

a) having a system (1) for loading and unloading and supporting hatch covers (11) which comprises:
   a crane (2) for loading and unloading in port operations; and
   a base located in the body of the crane to hold and stack the hatch covers (11);
b) removing the hatch cover (11) from the hold of the maritime vessel and moving it with the trolley (8) of the crane;
c) moving the cover and placing it on the installed base in the body of the crane; and

d) returning the cover to the ship moving it from the said base to the ship, once the operation of loading and/or unloading is over.