In the transference of ships' cargoes use has hitherto been made of ordinary ship's tackle or crane tackle, which necessitates the packages to be handled being actually grabbed or laid hold of by the tackle and consequently damaged, especially as the goods cannot be prevented from swinging when hanging from the crane.

It is the object of the present invention to avoid the possibility of damage to the packages of cargo to be handled. For this purpose a special loading platform for raising the cargo is provided on the ship; more particularly a loading platform such as shown at a (see Figure 1) guided vertically against the outer shell of the ship.

With reference to the accompanying drawings:

Fig. 1 represents a vertical section of a ship and in combination therewith a side elevation of the improved device for raising the cargo;

Fig. 2 shows a side view of the ship and in combination therewith a front elevation of the loading platform.

The said platform a is attached to a frame b which is apertured and is provided with guide rollers and which may, if desired, be pivoted at c so as to be adapted to fold back on to the upper deck.

The platform is so connected to the guide frame by the supporting struts d that it can be held in an approximately horizontal position relatively to the supporting frame but, in any case, is inclined slightly towards the side of the ship rather than in the opposite direction. The rollers of the guiding and supporting frame run in guide bars e, which are attached vertically to the ship's sides for instance, by means of flat socket plates fixed on the side of the ship and adapted to receive corresponding flat pins provided on the lower end of the guide bars e. This method of attachment is preferable because the vertical bars e, as also the frame itself, can only be advantageously placed on the outside of the ship when she is discharging or taking in cargo. For this purpose the guide bars e require to be attached at top and bottom only. If they are fixed in the above mentioned socke-
vention, which consists in attaching to the side of a ship a loading platform similar in construction to a lift and adapted to move vertically.

It is further obvious that the means for attaching the loading platform may be so arranged that they can be applied at various points on the outside of the ship, according to the nature of the place where she is berthed for the time being, while, if necessary, the entire structure may be arranged to slide along the ship's side, for the purpose of locating it at the desired point on the ship according to the position of her berth and how she happens to be lying.

All these modifications are easy to carry out when the idea on which the invention is based is explained and all of them are to be understood to fall within the scope of the present invention.

The platform may be so constructed that the goods to be loaded can be brought on to the platform at right angles to the central plane of the ship and it may also obviously be so constructed that the goods to be loaded can be brought on to the said platform in a direction parallel to the said central plane. No difference in the use of the invention is occasioned thereby.

In the drawings the first mentioned constructional form of the invention is shown, that is to say, the frame b may be opened such as to allow the load to be brought on to the platform a at right angles to the central plane of the ship.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:

1. In an apparatus for raising cargoes for ships, vertical guide bars adapted to be arranged on the outer shell of a ship, a loading platform, and means carrying said loading platform and movable on said guide bars, said means including a frame apertured to afford horizontal access from the platform to the ship and vice versa.

2. In an apparatus for raising cargoes for ships, vertical guide bars adapted to be arranged on the outer shell of a ship, a loading platform, and means carrying said loading platform and movable on said guide bars, said means including a frame apertured to afford access from the platform to the ship and vice versa, and means permitting said platform to be folded over the top of the upper ship deck.

3. In an apparatus for raising cargoes for ships, vertical guide bars adapted to be arranged on the outer shell of a ship, a loading platform, and means carrying said loading platform and movable on said guide bars, said means including a frame apertured to afford access from the platform to the ship and vice versa, the guide bars, frame and