(No Model.)

F. G. MAREGLIA.

Rudder for Vessels.

No. 231,595. Patented Aug. 24, 1880.

Fig. 1.

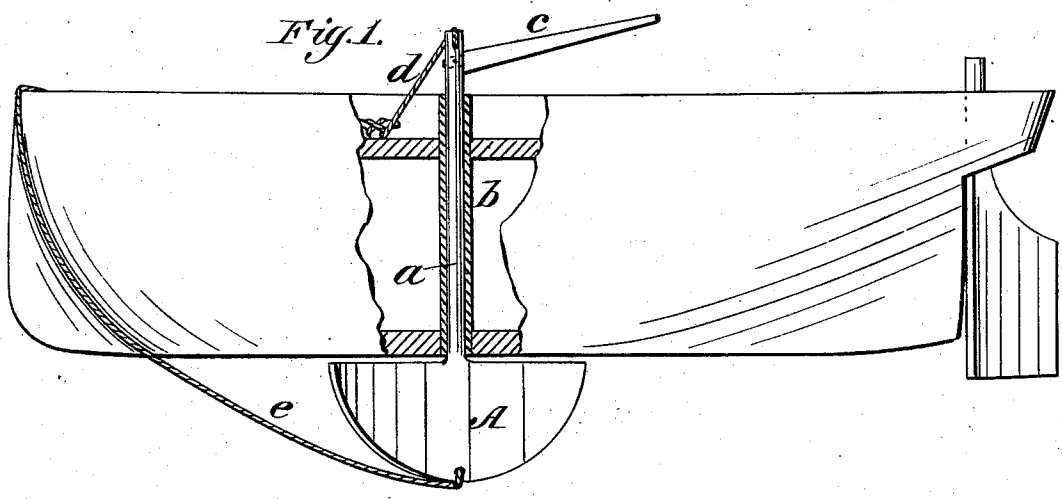


Fig. 2.

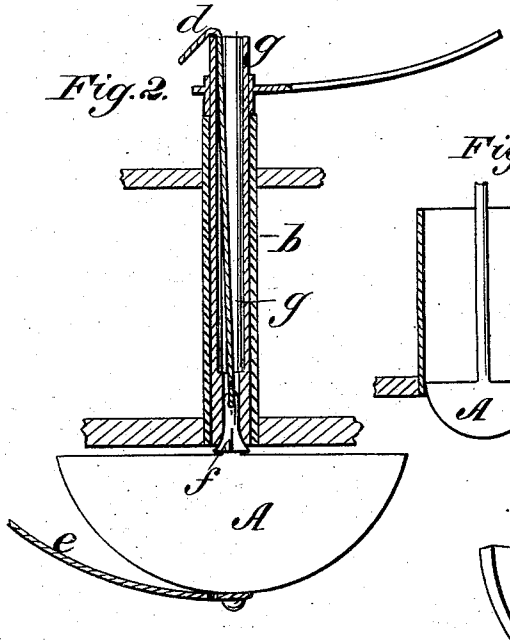


Fig. 4.

Fig. 3.

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RUDDER FOR VESSELS.

SPECIFICATION forming part of Letters Patent No. 231,595, dated August 24, 1880.

Application filed June 7, 1880. (No model.)

To all whom it may concern:

Be it known that I, FRANK G. MAREGLIA, of Lussinpiccola, Austria, have invented a new and useful Improvement in Rudders for Vessels, of which the following is a specification.

The object of my invention is to provide sailing-vessels with means for steering, whereby the course of the vessel may be changed without making leeway; also, to provide for shipping and unshipping the steering devices when not required for use.

The construction and operation will be more particularly described hereinafter with reference to the accompanying drawings, wherein—

Figure 1 is a sectional side elevation of a vessel fitted with my center rudder. Fig. 2 is a sectional view of a steering-post as constructed for larger vessels. Fig. 3 is a perspective view of the steering-post and rudder, the rudder being disconnected.

Similar letters of reference indicate corresponding parts.

Referring to Fig. 1, A is the rudder, the same being preferably a disk of semicircular form, formed with or attached to the post *a*. This rudder is fitted beneath the vessel on the keel-line, but slightly forward of the center.

The vessel is fitted with a tube or well, *b*, that extends from the opening in the keelson to or above the deck and receives the rudder-post *a*.

The tiller *c* is attached to post *a* above the upper end of the well *b*. To the upper end of the post *a* is connected a rope, *d*, and to the lower end of the rudder is connected a rope, *e*, which, when the rudder is in place for use, will be carried forward over the bow and made fast.

When the rudder is to be unshipped the tiller *c* is first removed, and the rudder and post lowered by the rope *d* until the post *a* clears the bottom of tube *b*, when the rudder and post may be drawn on deck by the rope *e*. This allows for removal of the center rudder when, from shallow water or other causes, such removal is desired.

For larger vessels using a rudder and post too heavy for removal together, I make the rudder separate from the post, as shown in Figs. 2 and 3. In this case the rudder is formed with a stem, *f*, which is of a flattened, oblong, or other suitable shape, next to the rudder.

The post *g* is tubular, and is fitted permanently in the well or tube *b*, and its lower end is formed with a flaring socket, of a shape for receiving the stem *f* snugly, so that the rudder shall turn with the post.

The rope *d* is fastened to the stem *f*, and extends up through post *g*. This rope will be hauled taut and secured so as to retain the rudder in place. This rope *d* will be used for hauling the rudder to place, and by the oblong shape of the stem *f* and the socket of post *g* the rudder will be brought to the proper position.

The vessel provided with this center rudder will have also the usual stern rudder. The effect of the center rudder is to turn the vessel on her center in either direction, as required, when the rudder is turned. The rudder A may also be held fore and aft, for use as a center-board, or used to check the vessel by turning the rudder crosswise. With this center rudder placed at an angle of about twenty degrees to the keel, when the vessel is tacking or sailing with the wind abeam, the effect will be to work the vessel to windward instead of her dropping to leeward, as usual. This will give a gain on every tack.

For large vessels the rudder may be fitted, as shown in Fig. 4, with the well *b* of a length for containing the rudder and of a width for allowing the rudder to turn about twenty degrees in either direction. By this construction the rudder will be sustained by the well.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the rudder A, the flattened oblong stem *f*, the tube *g*, fixed in the well-tube *b* and having a flaring socket at the lower end, and the ropes *d e*, as and for the purpose specified.

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Witnesses:

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