

Abstract of the invention

A high performance rudder for ships which is configured as a full spade rudder, comprising a rudder blade, a rudder trunk and a rudder post, whereby the rudder blade has a leading edge and a trailing edge, should be configured in such a manner that it achieves good manoeuvrability properties and can simultaneously be subject to high stresses. For this purpose, the profile of the rudder blade widens in a cross-sectional view from the leading edge in rudder longitudinal direction to a central area which constitutes the widest point of the rudder profile with a first flank angle. Furthermore, the rudder blade profile tapers from the central area to a rear area which constitutes the narrowest point of the rudder profile with a second flank angle and widens again from the rear area to the trailing edge in particular by constituting a fishtail. Moreover, the rudder trunk is provided as a cantilever girder with a central inner longitudinal bore for receiving the rudder post and is configured penetrating into the rudder blade, whereby a bearing is placed in the inner longitudinal bore of the rudder trunk for bearing the rudder post, the bearing penetrating with its free end into a recess, taper or the like in the rudder blade, whereby an end area of the rudder post is guided out of the rudder trunk and is connected with the rudder blade, whereby no bearing is provided between the rudder blade and the rudder trunk and whereby the bearing for bearing the rudder post is placed in the rudder trunk in the area of the free end of the rudder trunk.

(Fig. 4a)