

METHOD FOR OPERATING FRICTION RESISTANCE REDUCED SHIP

Abstract

[Problem] To provide a method for further reducing the friction resistance
5 of a friction resistance reduced ship. [Solution] Rolling and pitching vary greatly
depending on variations in climate, etc.; however, when limited to an extremely
short time, the rolling and pitching repeat in an almost identical or similar pattern.
Therefore, if the pattern of the immediately preceding rolling and pitching is
understood, the subsequent pattern can also be predicted. This is similar for
10 vertical position variation patterns of minute bubble generation units calculated
from the angle of the rolling and pitching. Furthermore, the vertical position
variation also differs depending on the installation position of each minute bubble
generation unit, so the present invention measures the vertical position variation
for each minute bubble generation unit, while also predicting the vertical position
15 variation at and after the current time. The predicted vertical position variation is
compared with the waterline height, while the time at which the minute bubble
generation units below the sea surface will be above the sea surface or the time at
which the minute bubble generation units above the sea surface will be below the
sea surface are predicted, and an ON/OFF valve 8 is switched at that time.

20 Figure 4 accompanies.