

Abstract

SHIP PROPULSION DEVICE

[Problem]

There is provided an inexpensive ship propulsion device which uses two sets of motors which do not require a special-ordered inverter, and can perform efficient drive control.

[Solution]

In a ship propulsion device 1, a motor A is connected to a ring gear of a differential-type planetary gear mechanism 5, a motor B is connected to a sun gear by way of a clutch 15, and a propeller 6 is connected to a carrier C for planet gears P. A controller 30 performs control such that the propeller is driven by only the motor A in a small-output region of the propeller, and the propeller is driven by the motor A and the motor B in a large-output region of the propeller. A large-sized specially ordered inverter is unnecessary and hence, an inverter installation space can be effectively used. Accordingly, by performing efficient control corresponding to a propeller output using two sets of motors, a fuel consumption amount of a power generating engine which drives an electric motor can be reduced.

[Selected Drawing] Fig. 2