

**Line guiding system for at least one supply line which can be
coiled and uncoiled and rotary guide therefor**

5

ABSTRACT

The proposed line guiding system (600) for at least one heavy
and/or rigid line, for example a power cable for shore-side power
supply for a ship (alternative maritime power), has a winding
10 device (602) which is rotatable about an axis of rotation (A) for
coiling and uncoiling the line (610) and a rotary guide (106; 206;
606) for the line from a first point (F) to a relatively rotatable
second point (R). The rotary guide has a helical guiding course
having first helical layers (117; 257), in which the line is wound
15 about the axis of rotation (A), and second helical layers (118;
258), in which the line is wound in the opposite direction. A
return curve (119; 259) connects the two helical layers.
According to the invention, the rotary guide (106; 206; 606) has a
tubular support sleeve (140; 240; 640; 130; 230) which is coaxial
20 with respect to the axis of rotation and serves to support the
helical layers radially outwards or radially inwards. Furthermore,
a rotary decoupling structure is provided, by which helical layers
(117; 257, 118; 258) supported on the support sleeve are decoupled
from the winding device (602).

25

(FIG.4)