CLAIMS

1. An antenna to transmit and/or receive radio-frequency waves from a naval ship comprising a deck, wherein the antenna comprises:

a radiating element formed by a structural element of the ship arranged on the deck of the ship, said structural element having a given height and a given base cross-section, and

an exciting element, having a smaller height than said structural element, for exciting said radiating element when said exciting element is fed with current, said exciting element being fed by a unique feed and comprising at least one tilted metal linear element connected, at a first end, to said radiating element and, at a second end, to an element arranged on the deck of the ship, wherein said first end is positioned below the median point of said structural element.

2. The antenna as claimed in claim 1, wherein the structural element is an enlarged mast or a funnel or a deckhouse, so that the antenna transmits and/or receives in the Medium Frequency band or in the High Frequency band or in the Very High Frequency band.

3. The antenna as claimed in claim 1, wherein the exciting element extends in a single dimension, so as to reduce the overall dimensions of the antenna.

4. The antenna as claimed in claim 1, wherein the exciting element comprises a plurality of parallel metal linear elements connected at each end to said at least one metal linear element, the parallel linear elements defining parallel current paths.

5. The antenna as claimed in claim 1, wherein each metal linear element of said exciting element is chosen among a group consisting of rods, pipes and wires.

6. The antenna as claimed in claim 1, wherein said element arranged on the deck of the ship is of smaller dimensions than the radiating structural element.

7. The antenna as claimed in claim 1, wherein at least one impedance load is arranged along the exciting element.

8. The antenna as claimed in claim 7, wherein the impedance load comprises at least one element among the group consisting of a capacitor, a coil and a resistor.

9. The antenna as claimed in claim 3, wherein a current feed is arranged along the exciting element.

10. The antenna as claimed in claim 9, adapted at the current feed to realize proper impedance matching between at least two elements among the group consisting of the antenna, a generator and a coaxial cable.

11. The antenna as claimed in claim 1, wherein the exciting element comprises a plurality of metal linear elements parallel to said at least one metal linear element, each parallel linear element being connected via separate connection points to said radiating element and/or to an element arranged on the deck of the ship, said plurality of parallel linear elements defining parallel current paths.

12. The antenna as claimed in claim 7, wherein at least one impedance load is arranged along each metal linear element.

13. The antenna as claimed in claim 1, wherein the exciting element comprises a plurality of non-parallel linear elements connected, at one end to

said at least one metal linear element, and at the other end to the radiating element or to an element arranged on the deck of the ship.

14. The antenna of claim 1, wherein the height exciting element is strictly inferior to 8% of the maximum wavelength of the High Frequency band.