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(54) Title: VERTICAL-AXIS TRANSMITTING SONAR ANTENNA THAT CAN BE WOUND ONTO A WINCH

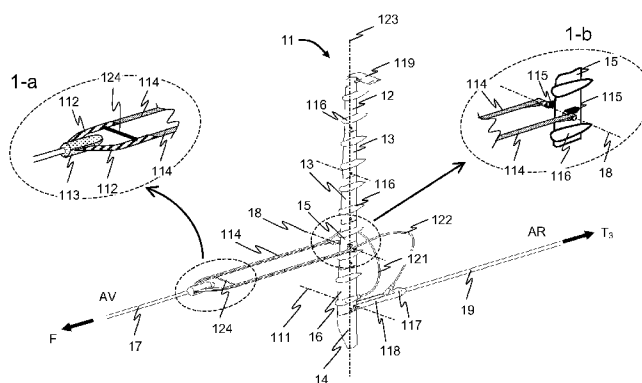


Fig. 1

(57) Abstract: The present invention relates to the general field of undersea mechanics and that of ship-towed linear bodies which must be towed in a vertical position and which, at rest, are designed to be stored on the drum of a winch. The invention consists in a towed linear submersible body capable of adopting a rectilinear configuration in a vertical position when it is towed at a total immersion depth and of adopting a curved configuration at rest, having a radius of curvature allowing it to be wound onto the drum of a winch. The device according to the invention comprises a plurality of rigid segments that are articulated and can adopt relative to one another an orientation making it possible to form a rectilinear body or a curved body, of which the radius of curvature is adapted to the drum of the winch onto which it is wound. The segments are associated with coupling means that are specific and configured so that a vertical rectilinear posture is naturally obtained when the device is totally submerged and towed by the ship, while the curved posture is obtained naturally by the winding of the device onto the winch. The invention applies to the production of linear and vertical transmitting acoustic antennas.

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