

ABSTRACT

DEVICE CAPABLE OF BEING SUBMERGED
AND INCLUDING AN ACOUSTIC TRANSDUCER

This device includes a case (2) in which an acoustic transducer (22) is mounted so as to communicate in a watertight manner with the exterior of the case (2) via acoustic energy.

5 According to the invention, the transducer (22) is attached to a membrane (17) separating it in a watertight manner from an inlet cavity (10, 11) which is arranged in the case (2) and is in direct communication with the exterior. The membrane (17) is resiliently applied by its
10 periphery onto a rest surface (12) arranged around the cavity separating the latter in a watertight manner from a deformation chamber (13) situated on the side of the membrane (17) opposite to the inlet cavity while being in communication with the interior of the case. The bottom
15 (13a) of the deformation chamber (13) forms a support surface for said membrane (17) when external static pressure greater than a predetermined value is applied thereto.

20 Figure 1