

ACOUSTIC MODULE AND ANTENNA INCORPORATING SAID ACOUSTIC MODULE

ABSTRACT

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An acoustic module (1) for an acoustic antenna for receiving submarine waves, produced in the form of a panel of polychloroprene-based rubber (100) incorporating a plurality of longitudinal tubular ducts (2) extending along the length (L) of the rubber panel (100) and being spaced apart along the width (I) of the rubber panel (100), said longitudinal ducts (2) receiving columns of hydrophones spaced apart lengthwise (L), said rubber panel (100) also incorporating at least one transverse duct (3) extending along the width (I) of said rubber panel (100), said longitudinal (2) and transverse (3) ducts being filled with a fluid and said acoustic panel (1) being provided with means (6) for blocking said ducts (2, 3) in a seal-tight manner, the hardness of the rubber and the thickness of the panel (100) being chosen such that the acoustic module (1) exhibits a first degree of freedom in bending about an axis extending lengthwise (L) and a second degree of freedom in bending about an axis extending widthwise (I).

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Figure 1