

Abstract

The invention relates to a piezoceramic hydrophone comprising at least the following elements:

- a first hemispherical shell (1) and a second hemispherical shell (2) which are assembled to form a hollow sphere (3);
wherein the first hemispherical shell (1) and the second hemispherical shell (2) comprise a radially polarized, piezoelectric material (9) and the first hemispherical shell (1) and the second hemispherical shell (2) have an outer layer (4), and the outer layer (4) comprises silver and/or silicon compounds;
- electrical contacting (5) of the first hemispherical shell (1) and the second hemispherical shell (2); and

characterized in that the outer layer (4) is joined to the polymer jacket (6) by a bonding agent (7) and that the bonding agent (7) comprises a compound of the formula $(M^1)_2[(M^2)F_6]$, where $M^1 = H, NH_4, Li, Na, K, Rb, Cs$ and $M^2 = Ti, Zr$.

Figure 1