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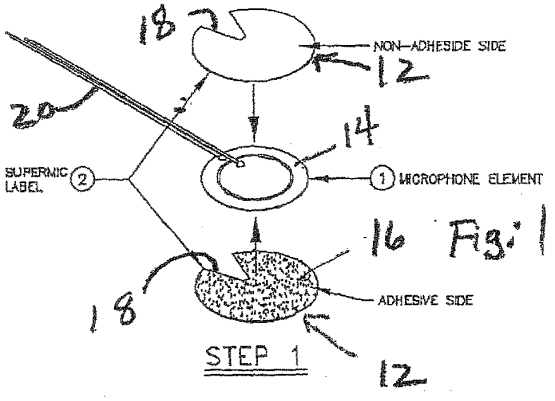
This application was filed on 01 - 06 - 2007 as a divisional application to the application mentioned under INID code 62.

(54) **Laminated piezoelectric transducer**

(57) An underwater acoustic transducer (10) comprising a laminated waterproof and sealed active acoustic element (14) for transducing sound and electrical signals; a front and rear housing element (24) disposed on each side of the active acoustic element (14) to define a corresponding front and rear acoustic chamber on each side of the active acoustic element (14), each housing element (24) defining a corresponding port (30) therethrough of a predetermined diameter and thickness to provide tuning of the corresponding acoustic chamber and to provide free flooding acoustic chambers; and a rear cover (38) disposed on the rear housing element (38) and defining a corresponding port (40) therethrough of a predetermined diameter and thickness to provide further tuning of the corresponding rear acoustic chamber while maintaining the free flooding characteristic of the rear acoustic chamber.



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