

Title (en)  
RESONATING DIAPHRAGMS WITH DIFFERENT FREQUENCIES

Title (de)  
RESONANZMEMBRANEN MIT VERSCHIEDENEN FREQUENZEN

Title (fr)  
MEMBRANES RESONATEURS A FREQUENCES DIFFERENTES

Publication  
**EP 1112669 A1 20010704 (FR)**

Application  
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Abstract (en)  
[origin: US6627805B1] For musical instruments or sound reproduction, finer sound definition is preferable. In sound reproduction, electro-acoustic transducers fitted with round membranes or electrostatic system stripes are common. No system states that the sound created is correct for the human ear. The present method concerns a fractal shape responding to criteria of the human ear shape. A membrane which, like the ear via its shape, is a set of resonators with different frequencies. The membrane shape, known as a harmony amplifier, has independent tongues emitting from a given surface, like fingers of a hand coming out of the palm. A membrane can be put into digital form by tongues. The membrane is placed in a musical instrument. Another variant is a membrane mounted on a sound frequency generator constituting an electro-acoustic transducer. This is effective for all types of musical instruments and particularly for audio and audio-visual applications.

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