

Title (en)
HIGH FREQUENCY WIDEBAND WIDE BEAM ULTRASOUND EMITTER TRANSDUCER FOR UNDERWATER COMMUNICATIONS

Title (de)
HOCHFREQUENZ-BREITBAND-BREITSTRAHL-ULTRASCHALLSENDER FÜR UNTERWASSERKOMMUNIKATION

Title (fr)
TRANSDUCTEUR D'ÉMETTEUR ULTRASONORE À FAISCEAU ÉTENDU ET LARGE BANDE HAUTE FRÉQUENCE POUR COMMUNICATIONS SOUS-MARINES

Publication
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Application
EP 18746282 A 20180618

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Abstract (en)
[origin: WO2018229735A1] Underwater ultrasound transducer for underwater communications comprising an assembly of a backing structure and a multi-layer piezoelectric polymer film attached to a surface of said backing structure, wherein said surface has a shape of a torus or of part of a torus and said film has a shape of part of a cylindrical segment, wherein said film is arranged in the outer half-surface of the torus shape. It may comprise a plurality of cylindrical segment multi-layer piezoelectric polymer films arranged around the outer half-surface of the torus shape. The surface may have a shape of a torus cut along its equator plane. The film may be Polyviylidene fluoride (PVDF) or P(VDF-TrFE) polymer thin film.

IPC 8 full level
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Citation (search report)
See references of WO 2018229735A1

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