

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**

Priority

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- IB 2018054471 W 20180618

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 Polyviyidenefluoride (PVDF) or P(VDF-TrFE) polymer thin film.

IPC 8 full level

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CPC (source: EP)

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