

A T L A S E L E K T R O N I K G m b H
Bremen

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ELECTROACOUSTIC CONVERTER

ABSTRACT

10 In an electroacoustic transducer for underwater use,
having a reflector (11) and a hydrophone (12) which is
arranged at an axial distance from the reflector (11)
and is arranged upstream of the reflector (11) in the
sound incidence direction, in particular in the form of
15 a ceramic hollow sphere, a reflector ring (16) which is
concentric with respect to the hydrophone (12) is
arranged in front of the reflector (11) in order to
achieve a phase profile, which is still planar after
flush installation in the outer skin of a boat body,
20 without sudden phase changes, the inner ring wall (161)
of which reflector ring (16) is at a radial distance
from the hydrophone (12). The spatial association
between the hydrophone (12) and the reflector ring (16)
is in this case provided by arranging the hydrophone
25 (12) at a predeterminable distance (h) from that end
surface (162) of the reflector ring (16) which faces
away from the reflector (11), in which case it can be
positioned such that it projects at least partially
beyond this end surface of the reflector ring (16), or
30 else is recessed behind this end surface (162) of the
reflector ring (16).