

DIRECTIONAL SILICON CONDENSER MICROPHONE HAVING ADDITIONAL BACK CHAMBER

【ABSTRACT】

A directional silicon condenser microphone having an additional back chamber is disclosed.

the directional silicon condenser microphone in accordance with the present invention comprises a case having a front sound hole for passing through a front sound; an acoustic delay device for delaying a phase of a sound; a substrate including a chamber case, a MEMS chip having an additional back chamber formed by the chamber case, an ASIC chip for operating the MEMS chip, a conductive pattern for bonding the substrate to the case, and a rear sound hole for passing through a rear sound; a fixing means for fixing the case to the substrate; and an adhesive for bonding the case and the substrate, wherein the adhesive is applied to an entirety of a bonding surface of the case and the substrate fixed by the fixing means.

Figure 3