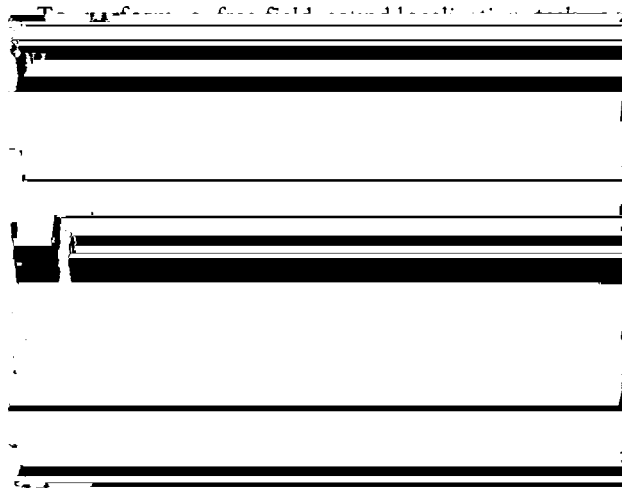


# An automated sound-localization chamber

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A completely automated free-field sound-localization apparatus is described along with a behavioral technique that provides several advantages over previously available methods. With the apparatus, the ability to localize the source of a sound has been tested in a wide variety of mammals including cats, rats, squirrel monkeys, hedgehogs, and tree shrews.



**WATER RESERVOIR**

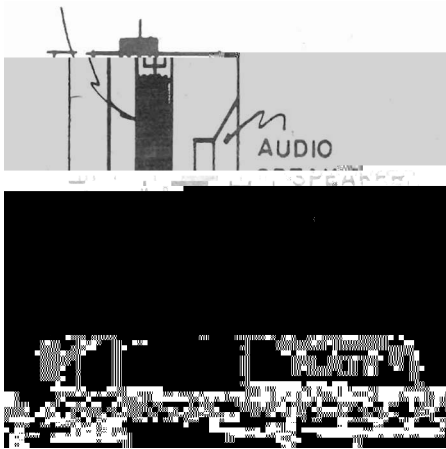
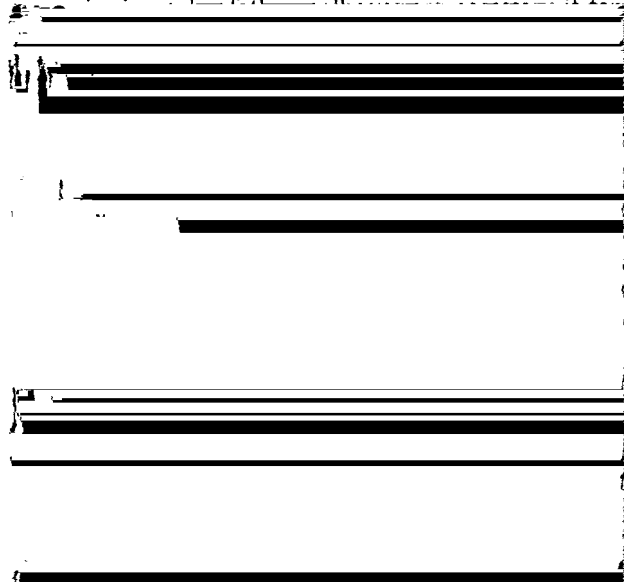


Figure 2. Details of goalbox containing speaker, water-delivery system, and contact sensing circuit. Animal responds by standing

drinkometer circuit, a 6 x 10 in. stainless steel floor plate extends out from each goalbox.

Within the goalbox, a reservoir maintains a constant pressure regardless of water level. Separate water



of the two boxes according to the Gellermann series. This cycle repeats itself until a preset number of rewards (usually 40 or more) have been obtained.

