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摘要(译)

超声设备包括换能器装置和在所述装置上方的声透射窗，所述窗包括弹性体层，该弹性体层具有分散在弹性体中的导电颗粒，该弹性体层具有压敏导电性。提供电话性材料致动器，以将换能器装置朝着透射窗偏置。根据测得的压敏电导率来控制电话性材料致动器。以这种方式，提供了用于控制接触压力的反馈系统。该装置可以以低成本和低功耗来实现。