ABSTRACT

PIEZOELECTRIC DEVICE WITH AMPLIFYING MECHANISM

A piezoelectric device is provided that comprises a mechanical amplifier adapted to produce a displacement output and/or receive a force input, and first and second flexible platforms connected to the mechanical amplifier. The first flexible platform is connected to one side of the mechanical amplifier and piezoelectric material is mounted on the first flexible platform for controllably flexing the first flexible platform. The second flexible platform is connected to another side of the mechanical amplifier and piezoelectric material is mounted to the second flexible platform for controllably flexing the second flexible platform.

Figure 2