



162162

ABSTRACT

DEVICE USING ACOUSTIC WAVES GUIDED IN A THIN LAYER OF
PIEZOELECTRIC MATERIAL BONDED BY A MOLECULAR BONDER TO
A CARRIER SUBSTRATE, AND METHOD OF MANUFACTURE

5 The invention relates to a surface acoustic wave device
comprising a thin layer of piezoelectric material, a layer of molecular bonder
and a carrier substrate. The thin layer constitutes an acoustic energy guide
that augments the performance characteristics of the device.

10 The invention also relates to methods for making the acoustic
wave device, comprising especially a step of molecular bonding between a
carrier substrate and a piezoelectric substrate, and then a step for reducing
the thickness of the piezoelectric substrate.

Figure 1.

15



G00002