[Name of Document] ABSTRACT

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[Object] To provide a surface acoustic wave device in which the oscillating frequency does not easily change with time.

[Solving Means] A surface acoustic wave device 1 includes a substrate 2 composed of quartz, a pair of comb-shaped electrodes 3 composed of an aluminum layer, electrode pads 4, and a pair of grid-like reflectors 5 composed of the same material as that for the electrodes 3. The aluminum layer constituting the electrodes 3 has a crystal structure comprising a twin structure. With the (-11-1) plane and the (1-11) plane of aluminum being twin boundaries, grains in the (-111) plane and the (002) plane and grains in the (1-1-1) plane and the (00-2) plane have a twin relationship. The {111} plane of the aluminum layer is oriented at a tilt angle of 8 degrees to the {010} plane of quartz constituting the substrate 2.

[Selected Figure] Fig. 1