



US 20220393660A1

(19) **United States**(12) **Patent Application Publication**
KNAPP et al.(10) **Pub. No.: US 2022/0393660 A1**(43) **Pub. Date: Dec. 8, 2022**(54) **THIN-FILM SAW DEVICE UTILIZING
RAYLEIGH MODE****Publication Classification**(71) Applicant: **RF360 EUROPE GMBH**, Munchen
(DE)(51) **Int. Cl.****H03H 9/02** (2006.01)**H03H 9/145** (2006.01)(72) Inventors: **Matthias KNAPP**, Munich (DE); **Ingo
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HAUSER**, Feldafing (DE)(52) **U.S. Cl.****CPC H03H 9/02574** (2013.01); **H03H 9/02834**
(2013.01); **H03H 9/02551** (2013.01); **H03H**
9/145 (2013.01)(21) Appl. No.: **17/775,250**(22) PCT Filed: **Nov. 11, 2020**(86) PCT No.: **PCT/EP2020/081790**

§ 371 (c)(1),

(2) Date: **May 6, 2022**(30) **Foreign Application Priority Data**

Nov. 14, 2019 (DE) 10 2019 130 779.1

(57) **ABSTRACT**

A surface acoustic wave device (5) is provided using a layered substrate system with a special material and a special cut of a piezoelectric thin film (4) selected for utilizing Rayleigh mode. The proper choice of the material and the cut of the piezoelectric thin film leads to a low velocity of the excited wave mode, which allows the usage of smaller devices without deteriorating other performance parameters according to specifications.

