

Title (en)

SAW DEVICE AND COMMUNICATION DEVICE USING SAW DEVICE

Title (de)

AKUSTISCHE OBERFLÄCHENWELLENANORDNUNG UND KOMMUNIKATIONSGERÄT MIT EINER DERARTIGEN ANORDNUNG

Title (fr)

DISPOSITIF SAW ET DISPOSITIF DE COMMUNICATION UTILISANT LE DISPOSITIF SAW

Publication

**EP 1158670 A9 20020515 (EN)**

Application

**EP 00981655 A 20001211**

Priority

- JP 0008742 W 20001211
- JP 34982499 A 19991209

Abstract (en)

[origin: EP1158670A1] A SAW device comprises input/output interdigital transducer (IDT) electrodes (11, 12) provided on piezoelectric substrates (10), a first reflector electrode (13) following the input IDT electrode (11), and a second reflector electrode (14) preceding the output IDT electrode (12). The device satisfies the following inequality (1) to provide preferable characteristics in a pass band:  $2(\theta - 5) \leq \tan^{-1}(D/L) \leq 2(\theta + 5)$  where  $\theta$ : the inclination (in degree, except zero) of the first or second reflector electrode of the input and output IDT electrodes with respect to a plane perpendicular to the direction in which surface acoustic waves travel. D: the pitch (in micron) of the input and output IDT electrodes in the direction in which surface acoustic waves travel. L: the pitch (in micron) of the first and second reflector electrodes. <IMAGE>

IPC 1-7

**H03H 9/145**; **H03H 9/64**

IPC 8 full level

**H03H 9/00** (2006.01); **H03H 9/02** (2006.01); **H03H 9/145** (2006.01); **H03H 9/64** (2006.01)

CPC (source: EP KR US)

**H03H 9/0028** (2013.01 - EP US); **H03H 9/02716** (2013.01 - EP US); **H03H 9/02771** (2013.01 - EP US); **H03H 9/02795** (2013.01 - EP US); **H03H 9/14517** (2013.01 - EP US); **H03H 9/14552** (2013.01 - EP US); **H03H 9/6433** (2013.01 - EP KR US); **H03H 9/0028** (2013.01 - KR); **H03H 9/02622** (2013.01 - EP US); **H03H 9/02716** (2013.01 - KR); **H03H 9/02771** (2013.01 - KR); **H03H 9/02795** (2013.01 - KR); **H03H 9/02874** (2013.01 - EP US); **H03H 9/14505** (2013.01 - EP US); **H03H 9/14517** (2013.01 - KR); **H03H 9/14526** (2013.01 - EP US)

Citation (search report)

See references of WO 0143284A1

Cited by

DE10325798B4; US7477117B2; WO2004109911A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1158670 A1 20011128**; **EP 1158670 A4 20041103**; **EP 1158670 A9 20020515**; **EP 1158670 B1 20090128**; CN 1180531 C 20041215; CN 1338148 A 20020227; DE 60041481 D1 20090319; KR 20010104705 A 20011126; SG 108315 A1 20050128; TW 498614 B 20020811; US 2002163402 A1 20021107; US 6496086 B2 20021217; WO 0143284 A1 20010614

DOCDB simple family (application)

**EP 00981655 A 20001211**; CN 00803090 A 20001211; DE 60041481 T 20001211; JP 0008742 W 20001211; KR 20017010072 A 20010809; SG 200302481 A 20001211; TW 89126257 A 20001208; US 91304301 A 20011113