

Title (en)
SURFACE WAVE CONVERTER WITH OPTIMISED REFLECTION

Title (de)
OBERFLÄCHENWELLENWANDLER MIT OPTIMIERTER REFLEXION

Title (fr)
CONVERTISSEUR D'ONDES DE SURFACE A REFLEXION OPTIMISEE

Publication
EP 1264397 A1 20021211 (DE)

Application
EP 01913681 A 20010219

Priority

- DE 0100630 W 20010219
- DE 10010089 A 20000302

Abstract (en)
[origin: DE10010089A1] The transducer consists of n base cells of length lambda, where lambda is the wavelength corresponding to the center frequency of the transducer, including exciting and reflecting base cells. The reflection contribution of each base cell has an intensity mR0, where m can be approximated to -2,-1,0,1 or 2 and R0 is a reference reflection. Each non-zero reflection contribution has the same phase, and the excitation has the same phase and intensity. The number of excited fingers is identical in all excited base cells. Excitation and reflection has the same phase in one direction, and the opposite phase in the opposite direction. An Independent claim is included for the use of the transducer for a low insertion-loss, extended impulse-response intermediate frequency filter.

IPC 1-7
H03H 9/145

IPC 8 full level
H01L 41/09 (2006.01); **H03H 9/145** (2006.01)

CPC (source: EP KR US)
H03H 9/145 (2013.01 - KR); **H03H 9/14505** (2013.01 - EP KR US); **H03H 9/14517** (2013.01 - KR); **H03H 9/14523** (2013.01 - KR)

Citation (search report)
See references of WO 0165688A1

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)
DE 10010089 A1 20010906; CA 2400719 A1 20010907; CN 1190893 C 20050223; CN 1406412 A 20030326; EP 1264397 A1 20021211; JP 2003526240 A 20030902; KR 100752828 B1 20070829; KR 20020079927 A 20021019; US 2003057805 A1 20030327; US 6777855 B2 20040817; WO 0165688 A1 20010907

DOCDB simple family (application)
DE 10010089 A 20000302; CA 2400719 A 20010219; CN 01805894 A 20010219; DE 0100630 W 20010219; EP 01913681 A 20010219; JP 2001564458 A 20010219; KR 20027011393 A 20020830; US 20410302 A 20020815