

Title (en)
PIEZOELECTRIC CONVOLUTION DEVICE USING ELASTIC WAVES

Publication
EP 0040559 B1 19840808 (FR)

Application
EP 81400686 A 19810430

Priority
FR 8011225 A 19800520

Abstract (en)
[origin: US4388599A] A convolver based on the propagation of acoustic waves at the surface of a piezoelectric solid comprises a piezoelectric substrate, means for exciting two backward-traveling acoustic waves at the frequency f , means consisting of at least two electrodes for collecting the signal at the frequency $2f$, the signal being produced as a result of nonlinear interaction of the two acoustic waves. The convolver device is connected to one of the two electrodes by means of a plurality of electrical contacts placed lengthwise and at intervals along the axis of propagation of the two interacting acoustic waves which are representative of the electrical signals applied to the two convolver inputs.

IPC 1-7
G06G 7/195

IPC 8 full level
H03H 3/08 (2006.01); **G06G 7/195** (2006.01); **H03H 9/25** (2006.01); **H03H 9/72** (2006.01)

CPC (source: EP US)
G06G 7/195 (2013.01 - EP US)

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0040559 A1 19811125; EP 0040559 B1 19840808; CA 1177126 A 19841030; DE 3165355 D1 19840913; FR 2483143 A1 19811127; FR 2483143 B1 19880205; JP H031847 B2 19910111; JP S5718115 A 19820129; NO 154365 B 19860526; NO 154365 C 19860903; NO 811707 L 19811123; US 4388599 A 19830614

DOCDB simple family (application)
EP 81400686 A 19810430; CA 377717 A 19810515; DE 3165355 T 19810430; FR 8011225 A 19800520; JP 7508481 A 19810520; NO 811707 A 19810519; US 26469181 A 19810518