Title (en)
   CMUT DRIVE METHOD

Title (de)
   CMUT-ANSTEUERUNGSVERFAHREN

Title (fr)
   PROCÉDÉ DE COMMANDE CMUT

Publication
   EP 4344795 A1 20240403 (EN)

Application
   EP 22197910 A 20220927

Priority
   EP 22197910 A 20220927

Abstract (en)
   A method (10) for improving receive sensitivity of a cMUT transducer element (32) by dynamically adjusting the bias volage (20, 26) between the transmit (12) and receive (16) phases of the drive cycle while keeping the cMUT in collapsed operation mode at all times.

IPC 8 full level
   B06B 1/02 (2006.01)

CPC (source: EP)
   B06B 1/0215 (2013.01); **B06B 1/0292** (2013.01)

Citation (applicant)
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   • US 6013032 A 20000111 - SAVORD BERNARD J [US]
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   • [A] WO 2021118476 A1 20210617 - ORTA DOGU TEKNIK UNIV [TR]
   • [A] ORALKAN ÖMER ET AL: "Experimental Characterization of Collapse-Mode CMUT Operatio", 1 January 2006 (2006-01-01), pages 1513 - 1523, XP093024073, Retrieved from the Internet <URL:https://ccrma.stanford.edu/~dtyeh/papers/oralkan06_collapsemode.pdf> [retrieved on 20230215]

Designated contracting state (EPC)
   AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
   BA ME

Designated validation state (EPC)
   KH MA MD TN

DOCDB simple family (publication)
   EP 4344795 A1 20240403; WO 2024068378 A1 20240404

DOCDB simple family (application)
   EP 22197910 A 20220927; EP 2023075873 W 20230920