

Title (en)
HIGH PERFORMANCE HANDHELD ULTRASOUND

Title (de)
HAND-ULTRASCHALL MIT HOHER LEISTUNG

Title (fr)
DISPOSITIF À ULTRASON PORTATIF À HAUTE PERFORMANCE

Publication
EP 3600059 A1 20200205 (EN)

Application
EP 18771485 A 20180323

Priority

- US 201715467656 A 20170323
- US 201715470793 A 20170327
- US 201715470798 A 20170327
- US 201715470700 A 20170327
- US 2018024059 W 20180323

Abstract (en)
[origin: WO2018175905A1] A handheld ultrasound device may comprise components configured to provide decreased size, weight, complexity, and power consumption. The handheld ultrasound device may comprise a beamformer configured to implement and compress a flag table in place of a delay table. These improvements can decrease the amount of memory used to generate ultrasound images, which can decrease the size, weight, and power consumption of the handheld ultrasound device. Ultrasound image data on a handheld imaging probe can be compressed on the handheld imaging probe prior to transmission from the probe in order to decrease the amount of data transmitted from the probe. The compressed data may comprise compressed pixels to maintain spatial image resolution. The compression circuitry may comprise an amount of memory related to a dynamic range of the compressed data that is independent of the dynamic range of the input data, which can decrease memory, power consumption, and latencies.

IPC 8 full level
A61B 8/00 (2006.01); **G01S 15/89** (2006.01); **G06T 15/00** (2011.01); **G10K 11/34** (2006.01)

CPC (source: EP)
G01S 7/003 (2013.01); **G01S 7/52034** (2013.01); **G01S 7/52046** (2013.01); **G01S 7/5208** (2013.01); **G01S 7/52082** (2013.01); **G01S 15/8915** (2013.01); **G10K 11/346** (2013.01); **A61B 8/4444** (2013.01); **G01S 7/52068** (2013.01)

Designated contracting state (EPC)
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Designated extension state (EPC)
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