

Title (en)

LOW-POWER ANALOG-TO-DIGITAL CONVERTER FOR SENSING GEOPHONE SIGNALS

Title (de)

ANALOG-DIGITAL-NIEDRIGLEISTUNGSWANDLER ZUR ERFASSUNG VON GEOFONSIGNALEN

Title (fr)

CONVERTISSEUR ANALOGIQUE-NUMÉRIQUE DE FAIBLE PUISSANCE POUR DÉTECTER DES SIGNAUX DE GÉOPHONE

Publication

EP 3170029 A2 20170524 (EN)

Application

EP 15826074 A 20150617

Priority

- US 201462025225 P 20140716
- US 201462044148 P 20140829
- US 201514636417 A 20150303
- US 2015036151 W 20150617

Abstract (en)

[origin: WO2016032598A2] A low power analog-to-digital converter configured to sense sensor signals may include a loop filter and a feedback digital-to-analog converter. The loop filter may have a loop filter input configured to receive an input current signal from a sensor and generate an output signal responsive to the input current signal. The feedback digital-to-analog converter may have a feedback output configured to generate a current-mode or charge-mode feedback output signal responsive to the output signal, the feedback output coupled to the loop filter input in order to combine the input current signal and the feedback output signal at the input.

IPC 8 full level

G01V 1/00 (2006.01); **H03M 3/04** (2006.01)

CPC (source: EP)

H03M 3/424 (2013.01); **H03M 3/494** (2013.01); **G01V 1/181** (2013.01); **H03M 1/066** (2013.01); **H03M 3/388** (2013.01); **H03M 3/454** (2013.01)

Citation (search report)

See references of WO 2016032598A2

Citation (examination)

- US 6657571 B2 20031202 - GORDON BERNARD M [US], et al
- US 6977601 B1 20051220 - FLETCHER CHRISTOPHER L [US], et al

Cited by

CN111399033A

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

DOCDB simple family (publication)

WO 2016032598 A2 20160303; **WO 2016032598 A3 20160714**; EP 3170029 A2 20170524; TW 201606332 A 20160216; TW I608245 B 20171211

DOCDB simple family (application)

US 2015036151 W 20150617; EP 15826074 A 20150617; TW 104120997 A 20150629