

Title (en)

METHOD AND DEVICE FOR DETERMINING THE PROPAGATION TIME OF A SURFACE ACOUSTIC WAVE FILTER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DER LAUFZEIT EINES AKUSTISCHEN OBERFLÄCHENSCHALLWELLENFILTERS

Title (fr)

PROCEDE ET DISPOSITIF DE DETERMINATION DU TEMPS DE PROPAGATION D'UN FILTRE A ONDES ACOUSTIQUES DE SURFACE

Publication

EP 2929369 A1 20151014 (FR)

Application

EP 13802628 A 20131210

Priority

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Abstract (en)

[origin: WO2014090773A1] The invention relates to a receiver of a system for positioning by satellite, including: a channel filter (SAW) in which a signal transmitted by satellite and received by the receiver is propagated along a direct path and indirect paths in an odd order; upstream from the channel filter, a tracking loop being controlled by means of a control correlator (C1), the receiver being characterized in that it comprises: an offset register (RD) configured to generate a plurality of local replicas (SR2) of said code, which are offset from one another such as to cover a time window corresponding to twice the uncertainty on an estimate of a propagation time when passing directly through the channel filter, a second correlator (C2) offset relative to the control correlator by a time corresponding to twice said propagation time estimate when passing directly through the channel filter, said second correlator being configured to correlate the code for spreading the signal transmitted by the satellite with said local replicas generated by the offset register, and to detect a correlation peak corresponding to the acquisition of the signal transmitted by the satellite and propagated in the channel filter along a triple indirect path.

IPC 8 full level

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CPC (source: CN EP US)

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Citation (search report)

See references of WO 2014090773A1

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