

 Time reversal;

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Handshaking protocol for time-reversal system

[US](#) · [US9794156B2](#) · Hang Ma · Origin Wireless, Inc.

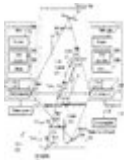
Priority 2014-02-19 · Filed 2016-02-11 · Granted 2017-10-17 · Published 2017-10-17
determining an estimated channel response signal based on the synchronization index and the cross correlation values; generating a signature waveform that is based on a **time-reversed** signal of the estimated channel response signal; and generating a transmission signal based on transmit data, the ...

Time-reversal wireless paradigm for internet of things

[US](#) · [US9781700B2](#) · Yan Chen · Origin Wireless, Inc.

Priority 2014-03-10 · Filed 2016-07-01 · Granted 2017-10-03 · Published 2017-10-03
a set of instructions to be executed by the at least one processor using the memory to: send at least one channel probing signal from the first terminal device in a first broadcast region to a first base station device of the **time reversal** communication system through a wireless multipath channel,

Method, apparatus, server, and systems of time-reversal technology

[US](#) · [US11025475B2](#) · K. J. Ray Liu · Origin Wireless, Inc.

Priority 2012-12-05 · Filed 2018-01-03 · Granted 2021-06-01 · Published 2021-06-01
204, downlink waveforms for the two or more receivers are determined so as to increase a weighted sum-rate under a total power constraint, the downlink waveforms being determined based on **time-reversed** channel impulse response signals and initial virtual uplink power allocation coefficients.

Distributed co-operating nodes using time reversal

[WO EP US](#) · [US9980244B2](#) · David Smith · Ziva Corp.

Priority 2013-04-07 · Filed 2016-12-09 · Granted 2018-05-22 · Published 2018-05-22
generating, at said each RF node, a **time-reversed** sounding signal at carrier frequency, the **time-reversed** sounding signal of said each RF node being generated by sample-reversal of the sounding signal received in the common time capture window at baseband and by phase-conjugation at carrier ...

Methods, devices, servers, apparatus, and systems for wireless internet of ...

[US](#) · [US10833912B2](#) · Oscar Chi-Lim Au · Origin Wireless, Inc.

Priority 2012-12-05 · Filed 2018-09-09 · Granted 2020-11-10 · Published 2020-11-10
The present teaching relates to wireless Internet of Things. In one example, a **time reversal** client is disclosed. The **time reversal** client comprises a processor, a memory communicatively coupled with the processor, and a set of instructions, when executed by the processor based on the memory, that ...

Method, apparatus, and systems for wireless event detection and monitoring



WO EP US CN JP • [US10380881B2](#) • Qinyi Xu • Origin Wireless, Inc.

Priority 2015-12-09 • Filed 2016-12-09 • Granted 2019-08-13 • Published 2019-08-13
computing a second set of intra-class **time-reversal** resonating strength parameter values, each of the intra-class **time-reversal** resonating strength parameter values being computed based on the set of measured channel state information and a representative set of channel state information associated ...

Wireless positioning system



WO EP CN JP • [JP7064679B2](#) • ヤン チェン, ・オリジン ワイヤレス, インコーポレイテッド

Priority 2014-07-17 • Filed 2020-04-06 • Granted 2022-05-11 • Published 2022-05-11
Obtained based on the convolution of one CI and a **time-reversed** conjugated version of the other CI between one of the at least one CI and one of the set of reference CIs stored in the storage. By calculating the degree of **time-reversal** resonance strength to be obtained, comparing the two CIs based ...

Method, apparatus, server and system for real-time vital sign detection and ...



US • [US10495725B2](#) • Feng Zhang • Origin Wireless, Inc.

Priority 2012-12-05 • Filed 2018-11-26 • Granted 2019-12-03 • Published 2019-12-03
(3) which claims priority to U.S. Provisional patent application 62/307,081, entitled "TR-BREATH: **TIME-REVERSAL** BREATHING RATE ESTIMATION AND DETECTION", filed on Mar. 11, 2016, (4) which claims priority to U.S. Provisional patent application 62/316,850, entitled "TR-BREATH: **TIME-REVERSAL** BREATHING ...

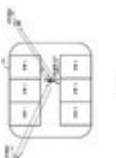
Ultrasonic surgical instrument, associated surgical method and related ...



WO EP US CA • [US20190247078A1](#) • Yegor Sinelnikov • Misonix, Incorporated

Priority 2010-12-07 • Filed 2019-04-23 • Published 2019-08-15
during the contacting of said material with said operative tip, operating said waveform generator to apply a predetermined **time reversal** acoustic waveform to said transducer assembly and concomitantly generate corresponding ultrasonic mechanical vibrations in said horn or concentrator section to ...

Methods, devices, servers and systems for tracking objects

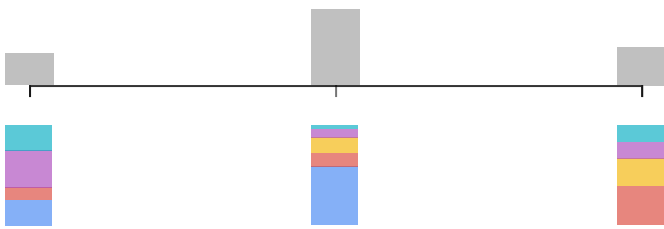


WO EP CN JP • [JP6971254B2](#) • フェン チャン, ・オリジン ワイヤレス, インコーポレイテッドOrigin Wireless, Inc.

Priority 2016-04-14 • Filed 2017-04-12 • Granted 2021-11-24 • Published 2021-11-24
FIG. 2 is a schematic diagram schematically showing a **time-reversed** transmission method according to an embodiment of the present teaching. FIG. 3 is a diagram schematically showing the spatial distribution of the **time-reversal** resonance intensity (TRRS) around the focal point according to the ...

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Fujifilm Corporation		1.9%
Origin Wireless, Inc.		1.7%
The Regents Of The University Of California		1.3%
Apple Inc.		0.8%
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