

INTERFERENCE CANCELLATION APPARATUS AND METHOD

ABSTRACT

Embodiments of the present invention relate to the field of communications
5 technologies, and provide an interference cancellation apparatus and method, which
can avoid being limited by a dynamic range of an ADC/DAC and can cancel a
second-type self-interference component effectively. The interference cancellation
apparatus includes a main receive antenna, a divider, a first-type interference canceller,
a down converter, a filter, a coupler, a digital down-conversion unit, a second-type
10 interference reconstructor, and a local-frequency signal generator. The present
invention is used for interference cancellation.

FIGURE 2