

# **METHOD AND APPARATUS FOR PROCESSING MULTICARRIER SIGNALS**

## **Abstract**

The present invention provides a multicarrier signal processor capable of reducing the dynamic range of multicarrier signals. In an exemplary embodiment, the multicarrier signal processor includes a controller (307) configured to receive at least a portion of a multicarrier signal, the controller analyzing the signal to identify at least one carrier signal of the multicarrier signal to be modified. At least one signal modifier (35N) communicates with the controller, the signal modifier receiving at least a portion of a multicarrier signal. The signal modifier isolates a carrier signal to be modified as directed by the controller, and modifies the isolated carrier signal. A signal combiner (303) receives the modifier carrier signal and combines it with an unmodified multicarrier signal. Preferably, the multicarrier signal processor is used to reduce the dynamic range of a multicarrier signal.

**Fig. 3**