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Judd et al.

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(54) **TRANSLATION UNIT FOR WIRELESS COMMUNICATIONS SYSTEM**

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Related U.S. Application Data

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(51) **Int. Cl.**
H04B 1/38 (2006.01)

(52) **U.S. Cl.** **455/561**; 455/11.1; 455/560

(58) **Field of Classification Search** 455/11.1, 455/561, 560, 7
See application file for complete search history.

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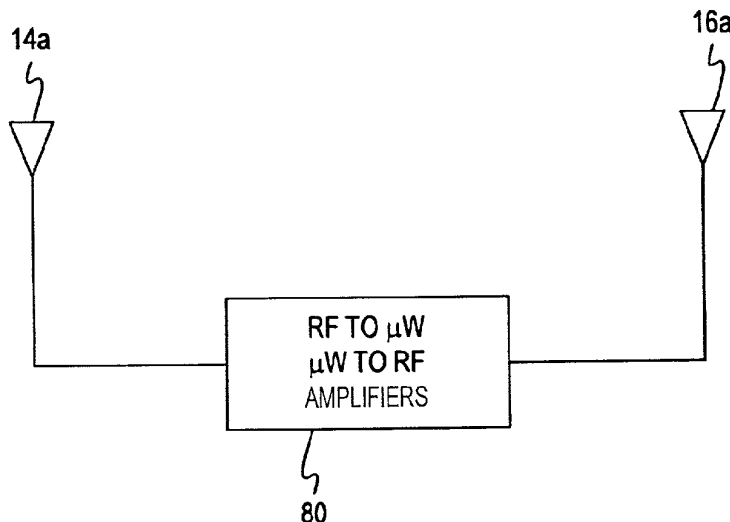
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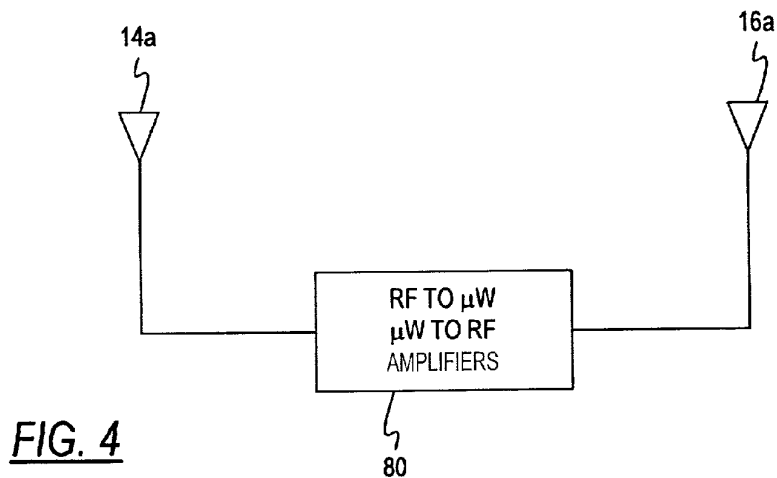
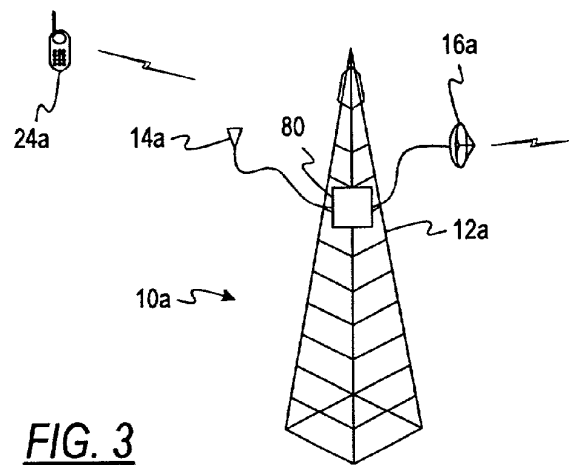
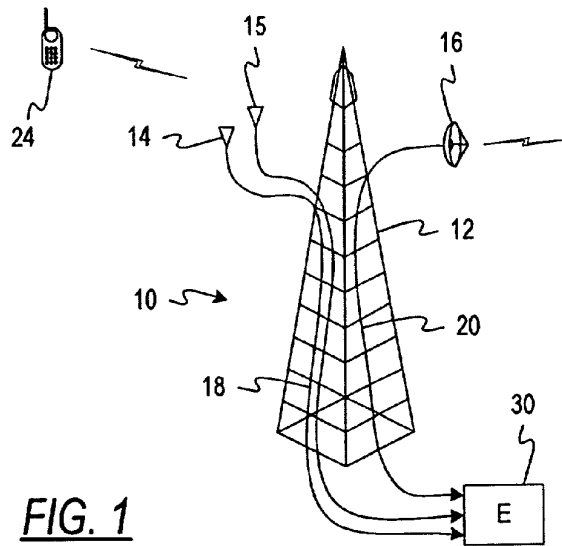
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(57) **ABSTRACT**

A translation unit for use in a wireless communications system comprises translation circuitry configured to be interfaced between an RF antenna network and a backhaul network. The translation circuitry is operable for translating the frequency of signals directly between an RF network and a backhaul network without conversion to audio in order to provide direct communications between a base station and a backhaul destination.

34 Claims, 11 Drawing Sheets





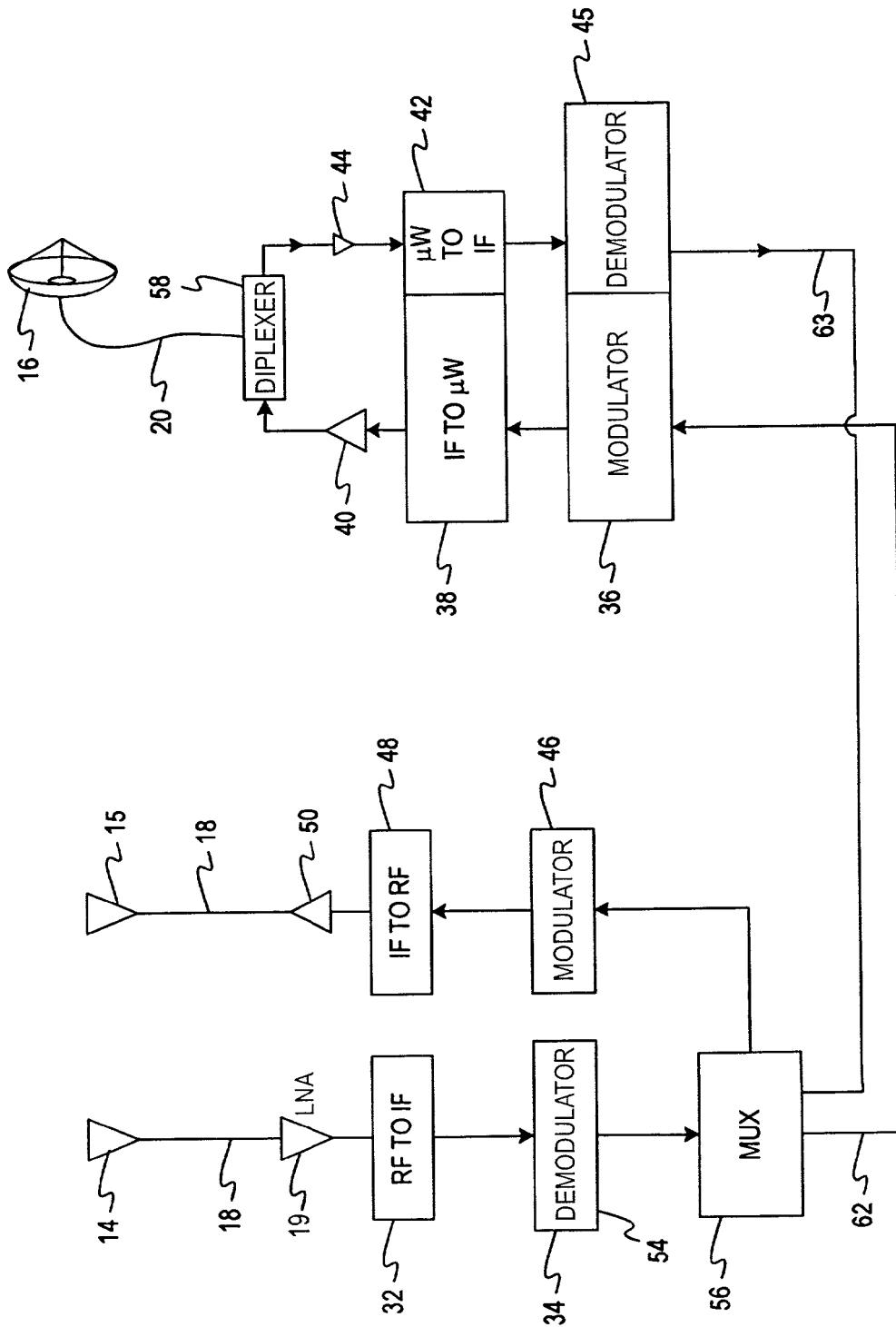


FIG. 2

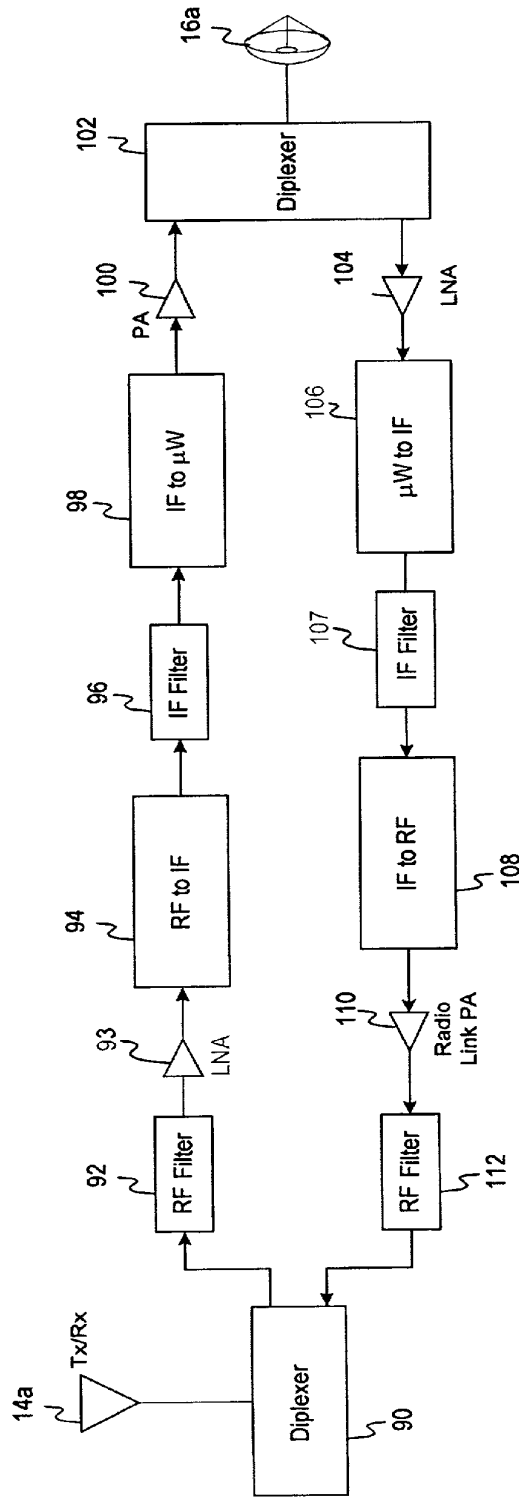


FIG. 5

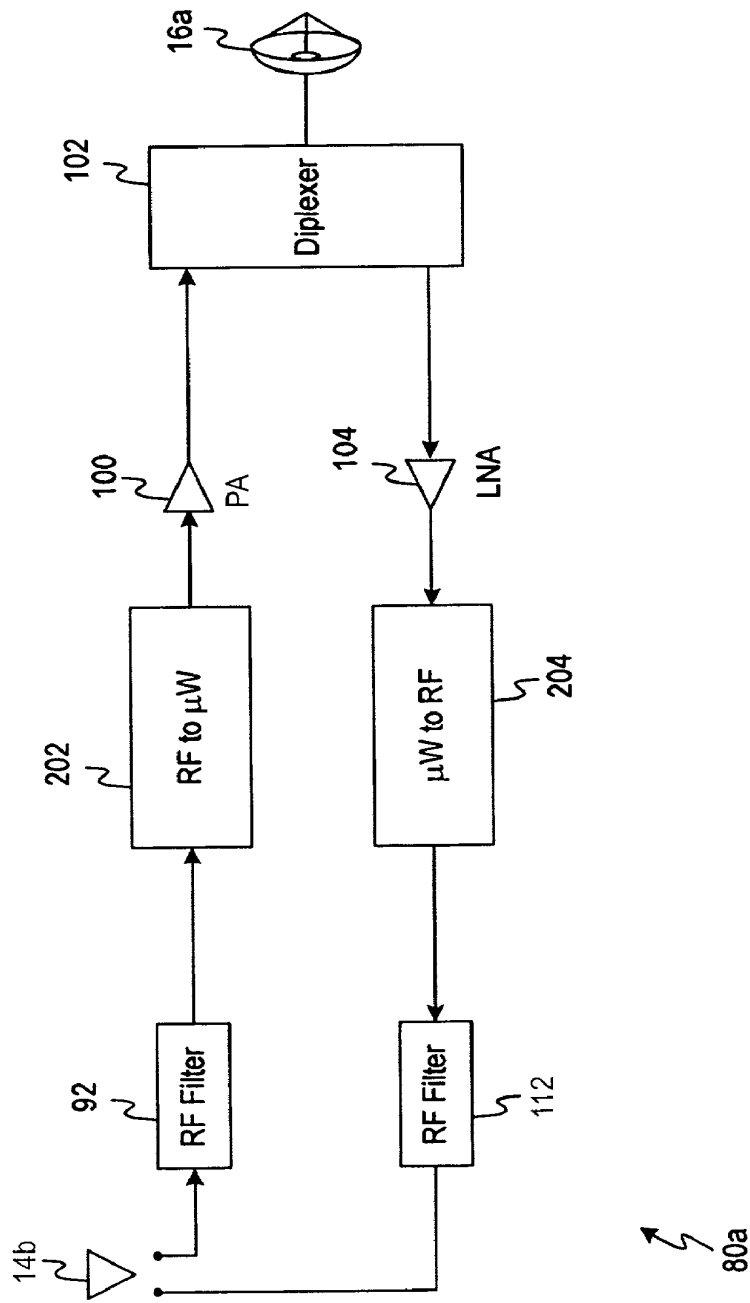


FIG. 6

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