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(54) **DAISY-CHAINED RING OF REMOTE UNITS FOR A DISTRIBUTED ANTENNA SYSTEM**

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(57) **ABSTRACT**

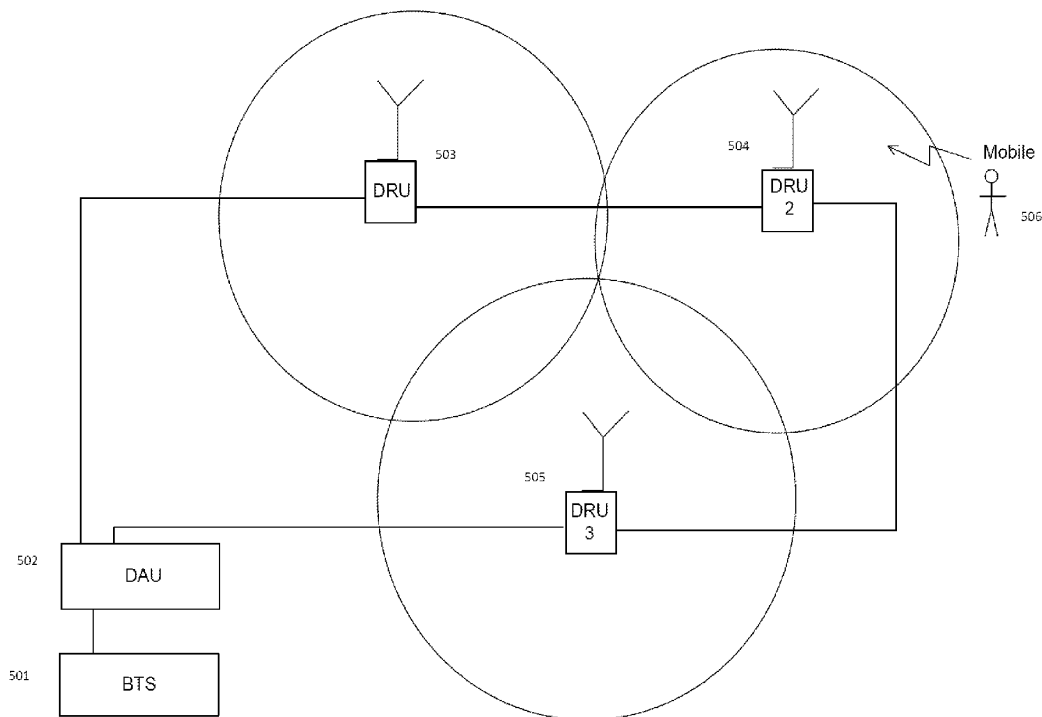
(21) Appl. No.: **13/211,247**

The present disclosure is a novel utility of a software defined radio (SDR) based Distributed Antenna System (DAS) that is field reconfigurable and support multi-modulation schemes (modulation-independent), multi-carriers, multi-frequency bands and multi-channels. More specifically, the present invention relates to a DAS utilizing one or more Daisy-Chained Rings of Remote Units. The present invention enables a high degree of flexibility to manage, control, enhance, facilitate the usage and performance of a distributed wireless network such as Flexible Simulcast, automatic traffic load-balancing, network and radio resource optimization, network calibration, autonomous/assisted commissioning, carrier pooling, automatic frequency selection, frequency carrier placement, traffic monitoring, traffic tagging, pilot beacon, etc. As a result, a DAS in accordance with the present invention can increase the efficiency and traffic capacity of the operators' wireless network.

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**Related U.S. Application Data**

(63) Continuation of application No. 11/961,969, filed on Dec. 20, 2007, Continuation of application No. 12/108,502, filed on Apr. 23, 2008, Continuation of application No. 12/603,419, filed on Oct. 21, 2009, Continuation of application No. 12/767,669, filed on Apr. 26, 2010, Continuation of application No. 12/928,931, filed on Dec. 21, 2010, Continuation of application No. 12/928,933, filed on Dec. 21, 2010, Continuation of application No. 12/928,934, filed on Dec. 21, 2010, Continuation of application No. 12/928,943, filed on Dec. 21, 2010.



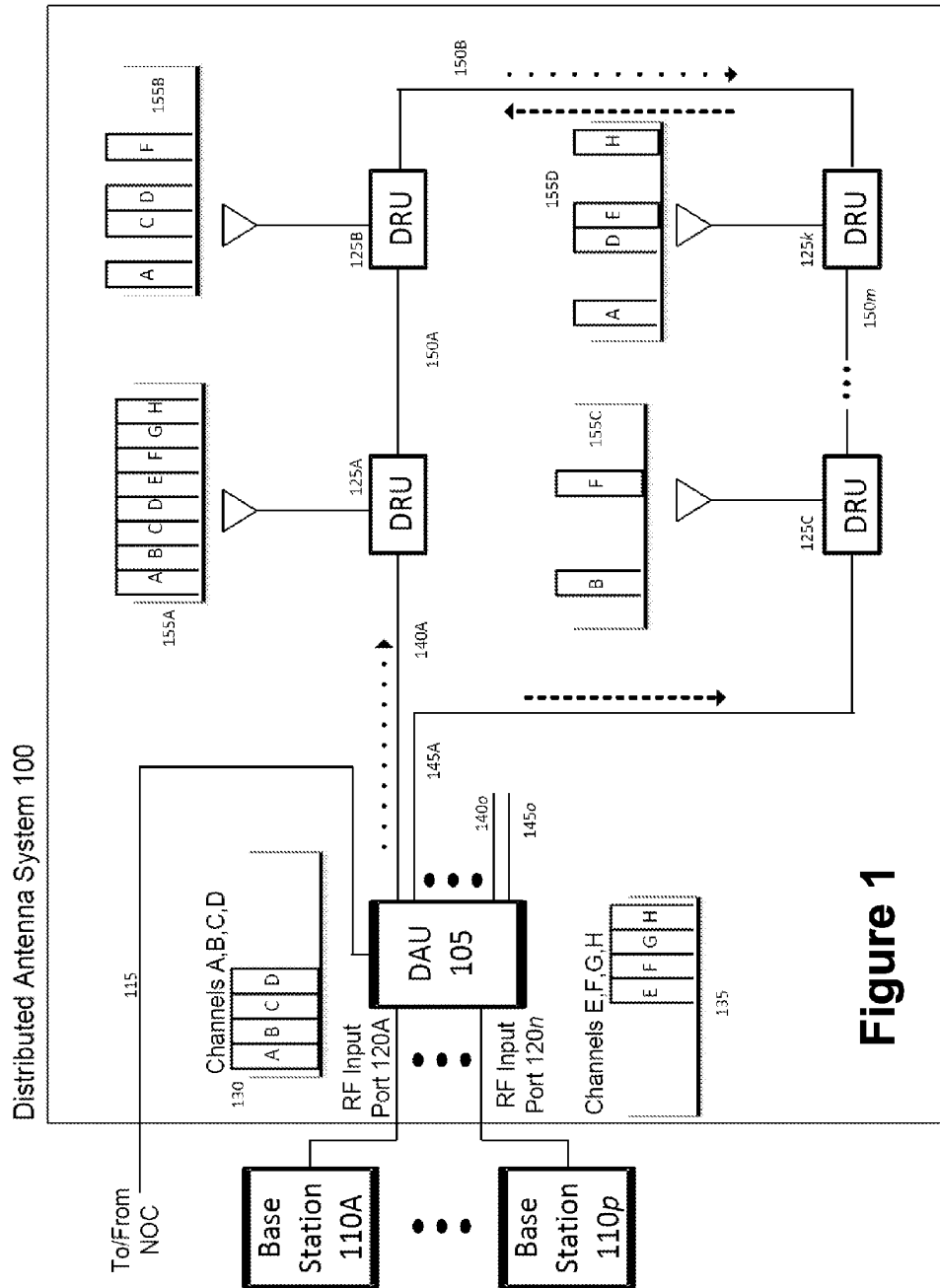


Figure 1

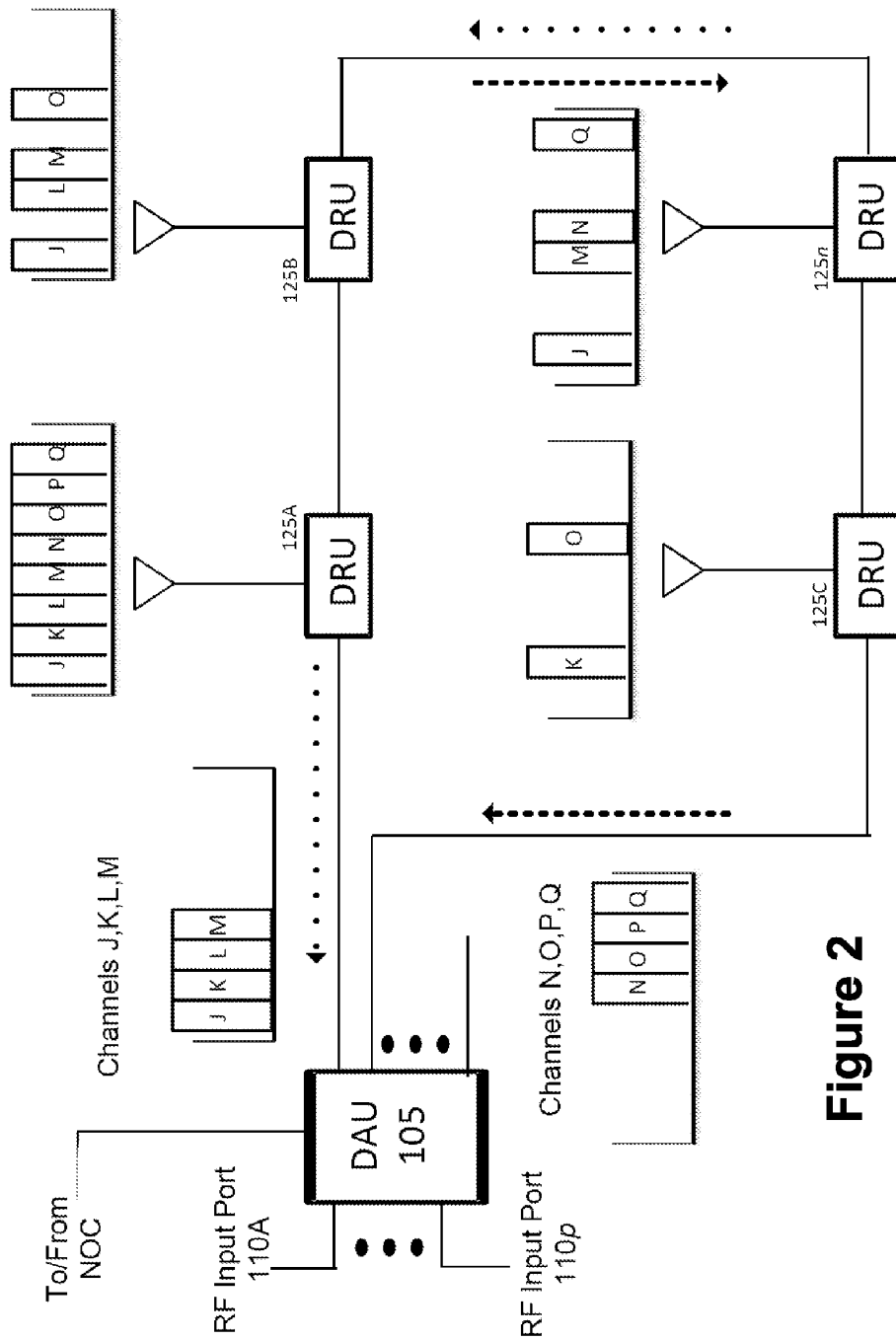
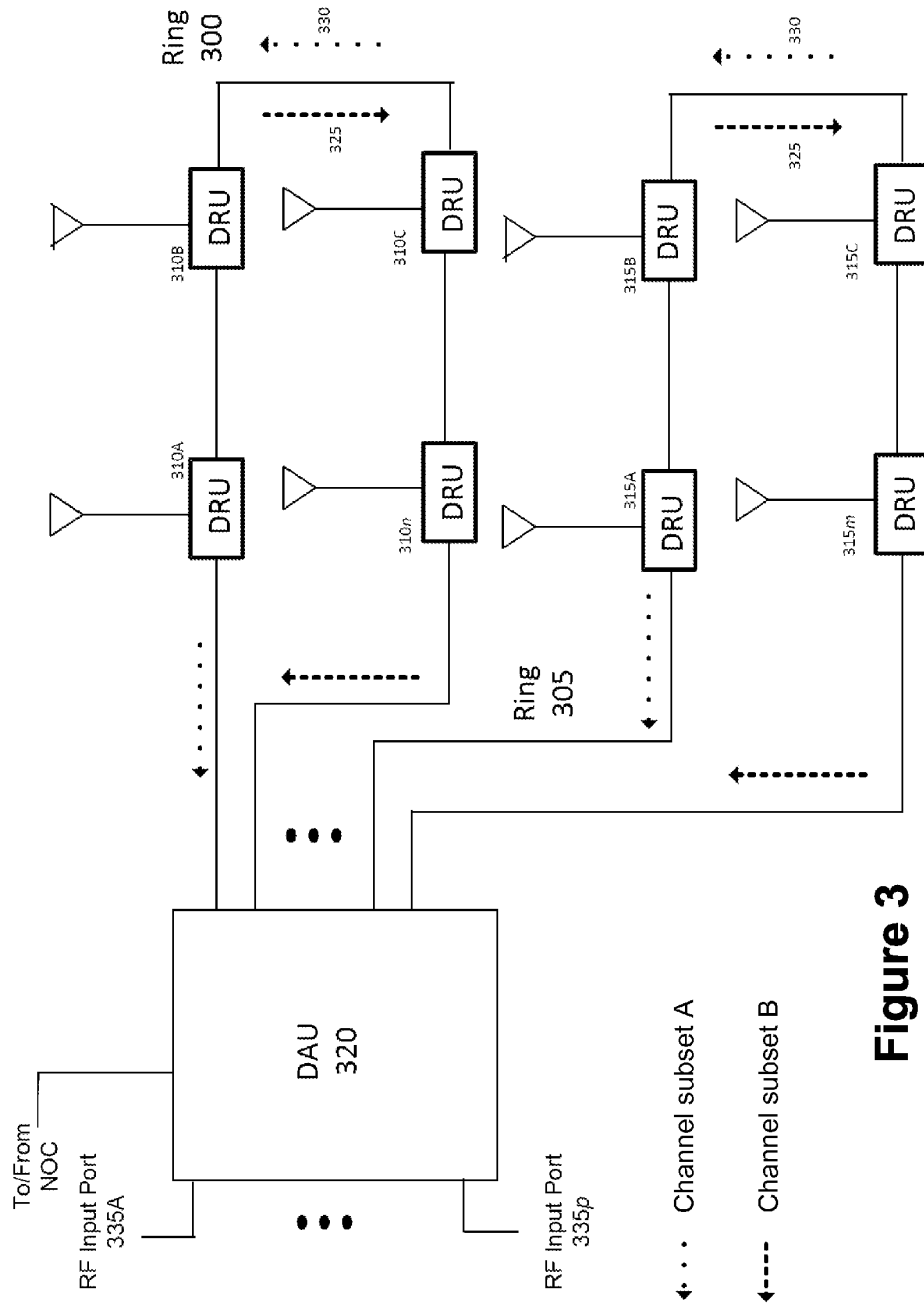
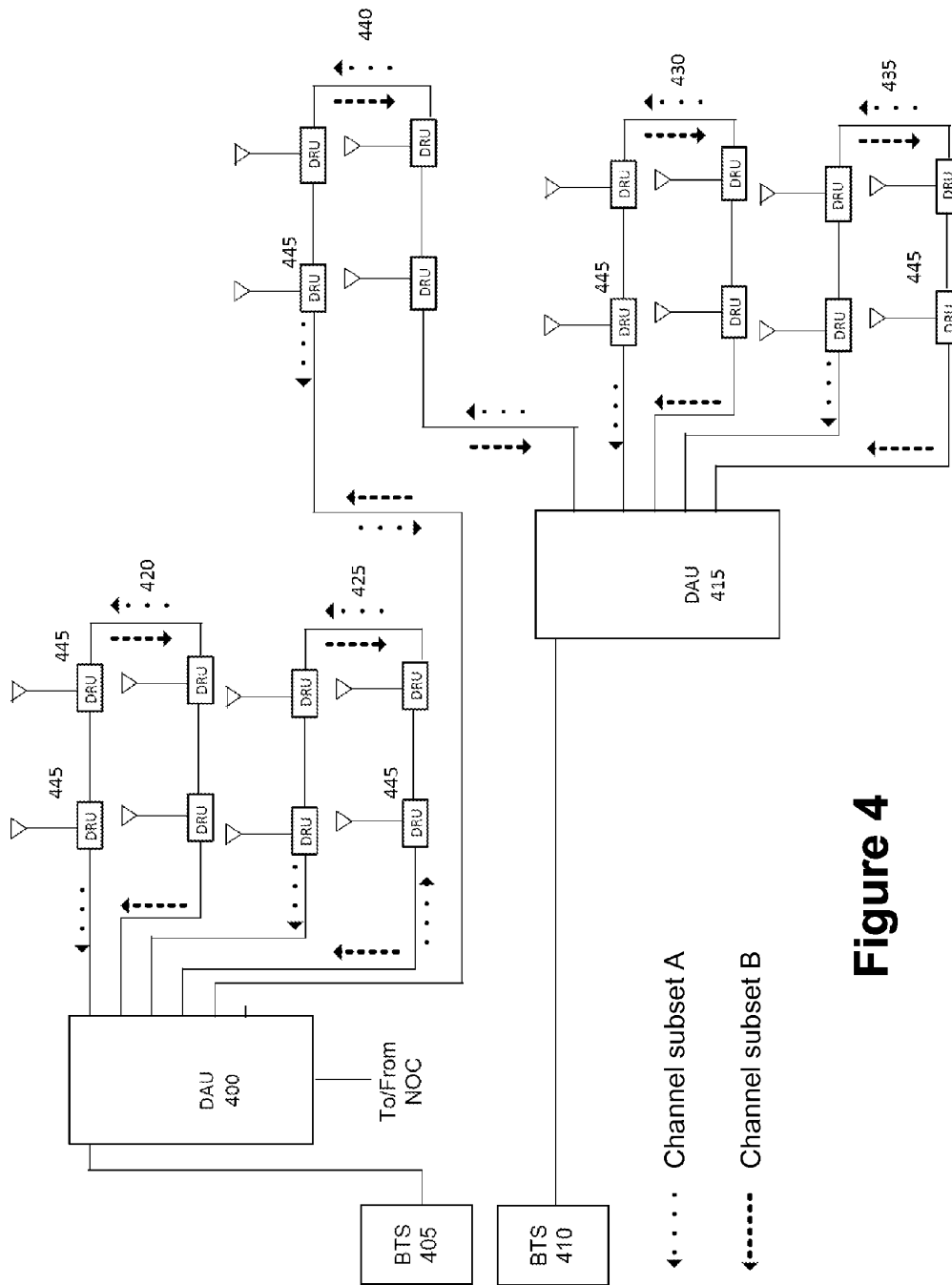


Figure 2



**Figure 3**



**Figure 4**

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