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(19) **United States**(12) **Patent Application Publication**
Hansen et al.(10) **Pub. No.: US 2006/0182017 A1**(43) **Pub. Date: Aug. 17, 2006**(54) **METHOD AND SYSTEM FOR COMPROMISE
GREENFIELD PREAMBLES FOR 802.11N****Publication Classification**(51) **Int. Cl.****H04J 11/00** (2006.01)**H04B 7/00** (2006.01)(52) **U.S. Cl.** **370/208; 370/310**

(57)

ABSTRACT

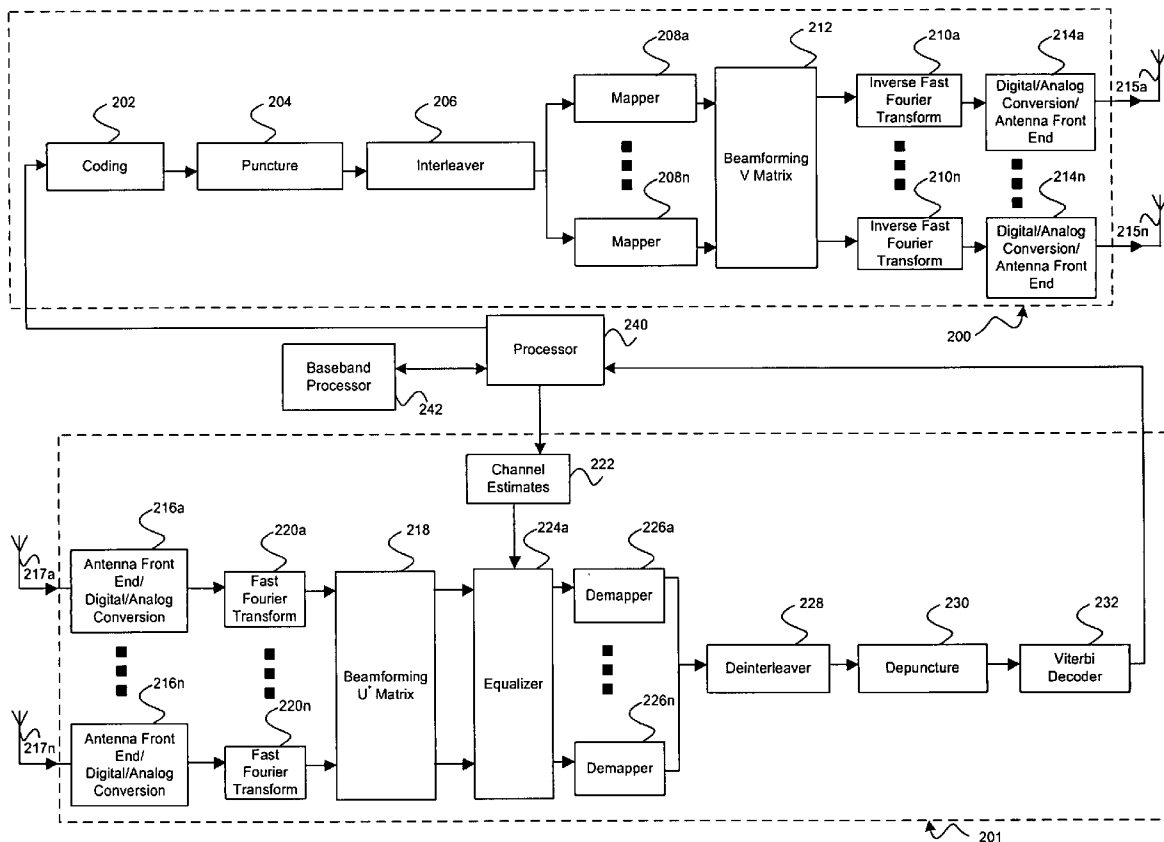
Aspects of the invention described herein may enable a greenfield access mode in IEEE 802.11n WLAN systems in comparison to an alternative approach that may not provide greenfield access. The utilization of greenfield access may reduce the portion of time required to transmit data due to overhead comprising preamble fields and header fields. This may enable higher data throughput rates to be achieved. This may further enable more robust transmission of data by enabling comparable data rates to be maintained while reducing the coding rate of encoded transmitted data. The reduction of the coding rate may enable comparable data rates to be maintained for transmission via RF channels characterized by lower SNR while still achieving desired target levels of packet error rates. In another aspect of the invention, mixed mode access may be achieved while reducing the portion of time required for transmitting data due to overhead.

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CHICAGO, IL 60661(21) Appl. No.: **11/151,772**(22) Filed: **Jun. 9, 2005****Related U.S. Application Data**

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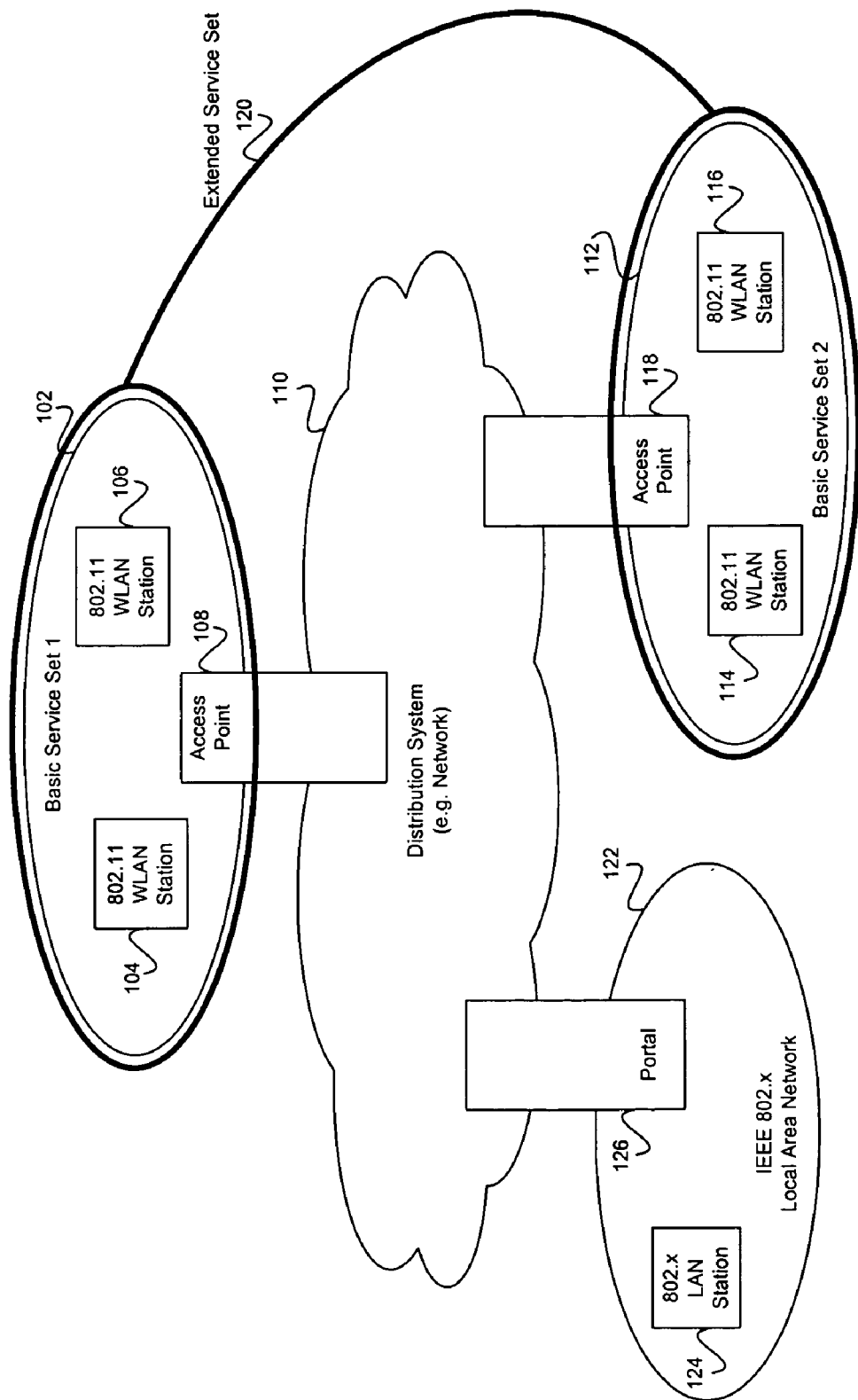


FIG. 1

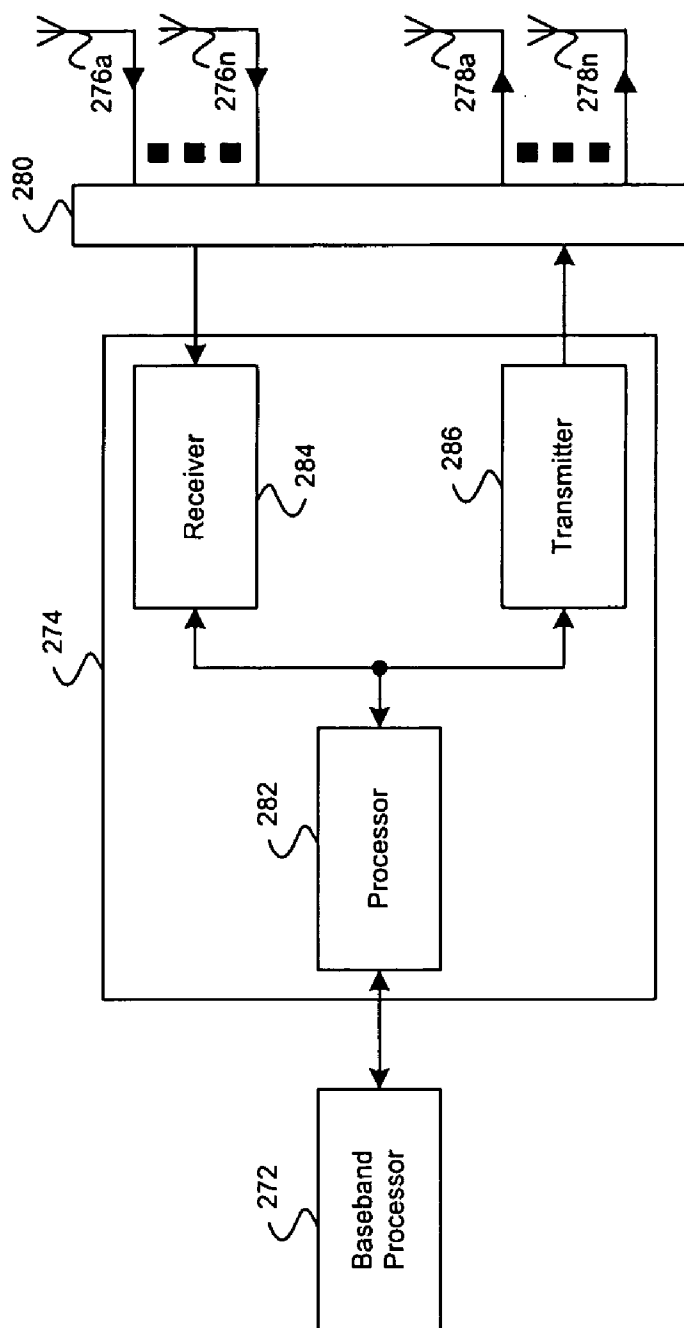


FIG. 2a

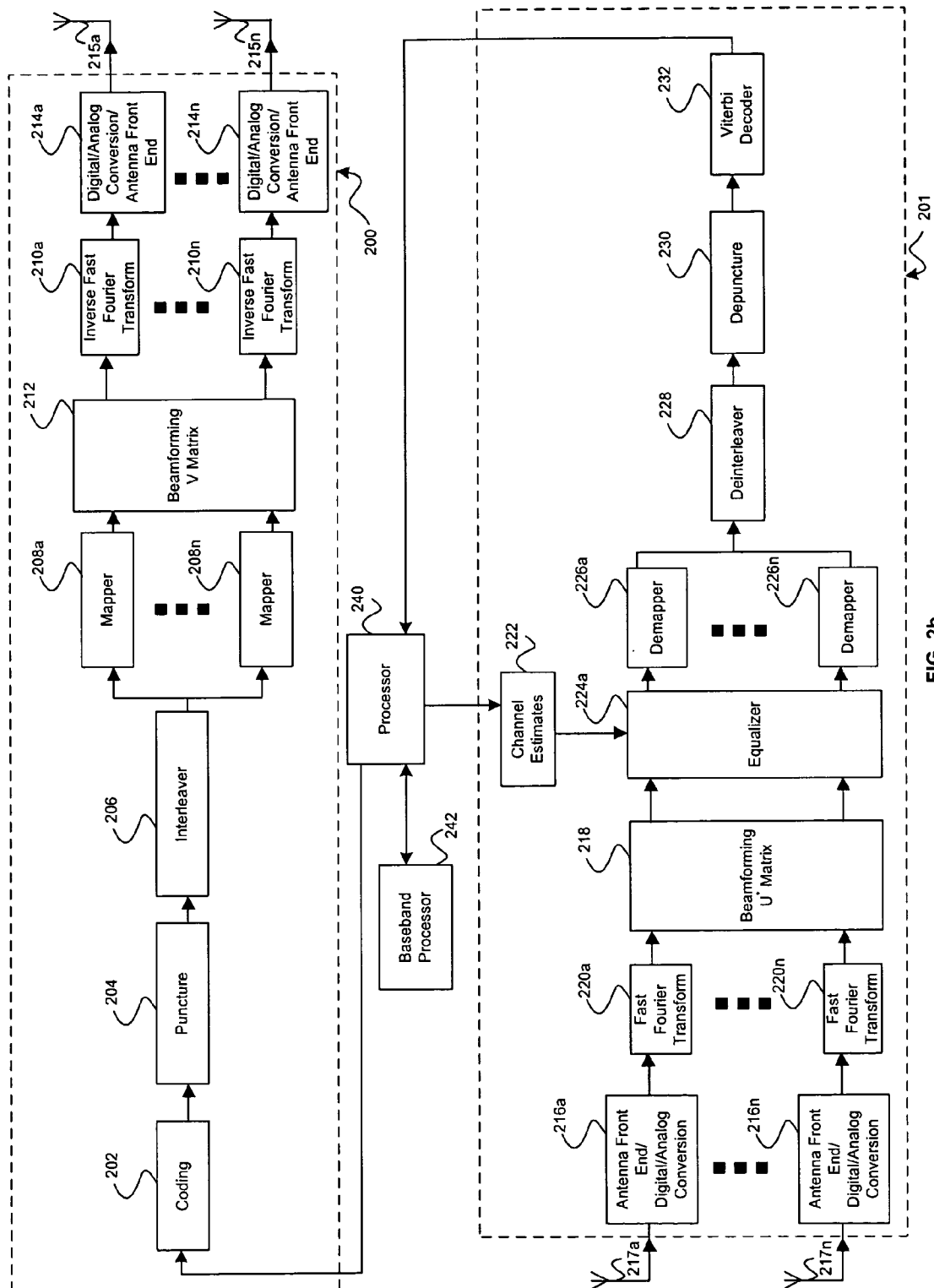


FIG. 2b

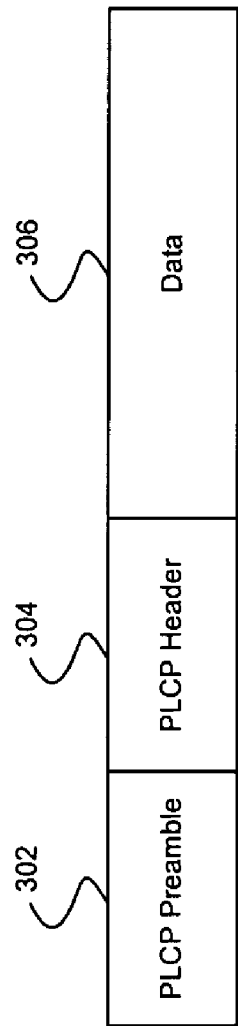


FIG. 3a

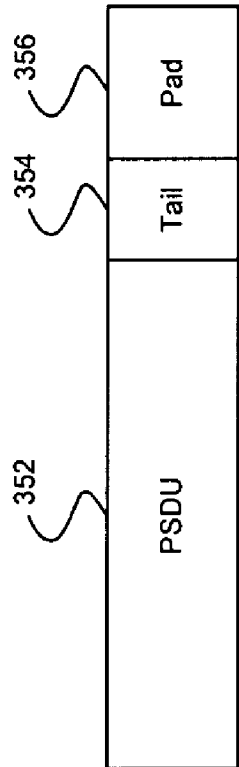


FIG. 3b

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