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(54) **MULTIPLEXING OF PERIODIC CHANNEL STATE INFORMATION ON PHYSICAL UPLINK SHARED CHANNEL TOGETHER WITH HYBRID AUTOMATIC REPEAT REQUEST ACKNOWLEDGEMENT**

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H04W 24/10	(2009.01)
H04W 72/12	(2009.01)

(52) **U.S. Cl.**

CPC ***H04L 5/0055*** (2013.01); ***H04L 1/1664*** (2013.01); ***H04L 1/1812*** (2013.01); ***H04L 1/1887*** (2013.01); ***H04L 5/0057*** (2013.01); ***H04W 24/10*** (2013.01); ***H04W 72/1289*** (2013.01); *H04L 1/1671* (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

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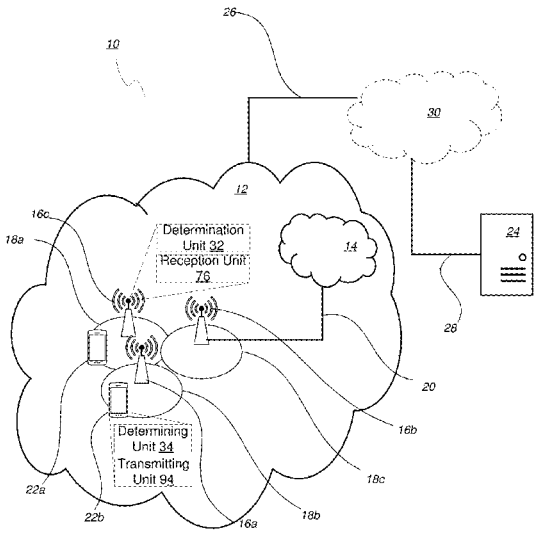
(57) **ABSTRACT**

A method, system and apparatus are disclosed. A wireless device (WD) configured to communicate with a network node is provided. The WD configured to, and/or comprising a radio interface and/or processing circuitry configured to receive a Downlink Control Information (DCI) message for scheduling transmission on a Physical Uplink Shared Channel (PUSCH) in which the DCI message not containing an indication of how many resources to reserve for Hybrid Automatic Repeat Request (HARQ) bits, and optionally, transmit on the scheduled PUSCH based on the DCI message.

19 Claims, 11 Drawing Sheets