



(12) **United States Patent**
Beale

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(54) **SENDING CONTROL INFORMATION OVER
A SHARED CHANNEL IN A WIRELESS
NETWORK**

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patent is extended or adjusted under 35
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(65) **Prior Publication Data**

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(51) **Int. Cl.**
H04W 4/00 (2009.01)
H04W 72/04 (2009.01)
H04W 48/10 (2009.01)

(52) **U.S. Cl.**
CPC **H04W 72/0406** (2013.01); **H04W 48/10**
(2013.01)

(58) **Field of Classification Search**
USPC 370/322, 326, 328–330, 335–338,
370/342–345, 348
See application file for complete search history.

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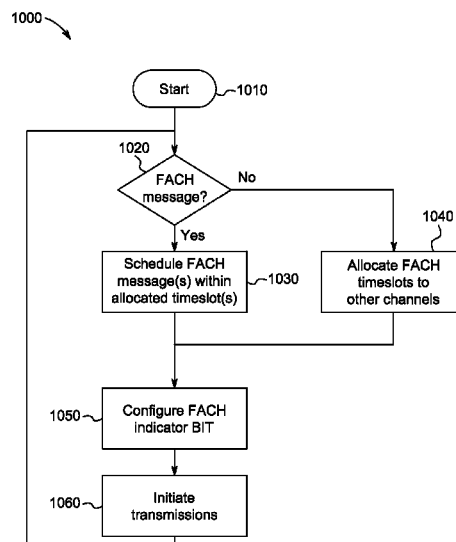
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(57) **ABSTRACT**

In a wireless network an indication of High Speed Downlink
Shared Channel (HS-DSCH) resources may be sent to user
equipment (UE) by a Node B. A message on an indicator
channel may be sent by the Node B to indicate that the
HS-DSCH resources are to be used in a subsequent time
interval to send control information.

8 Claims, 8 Drawing Sheets



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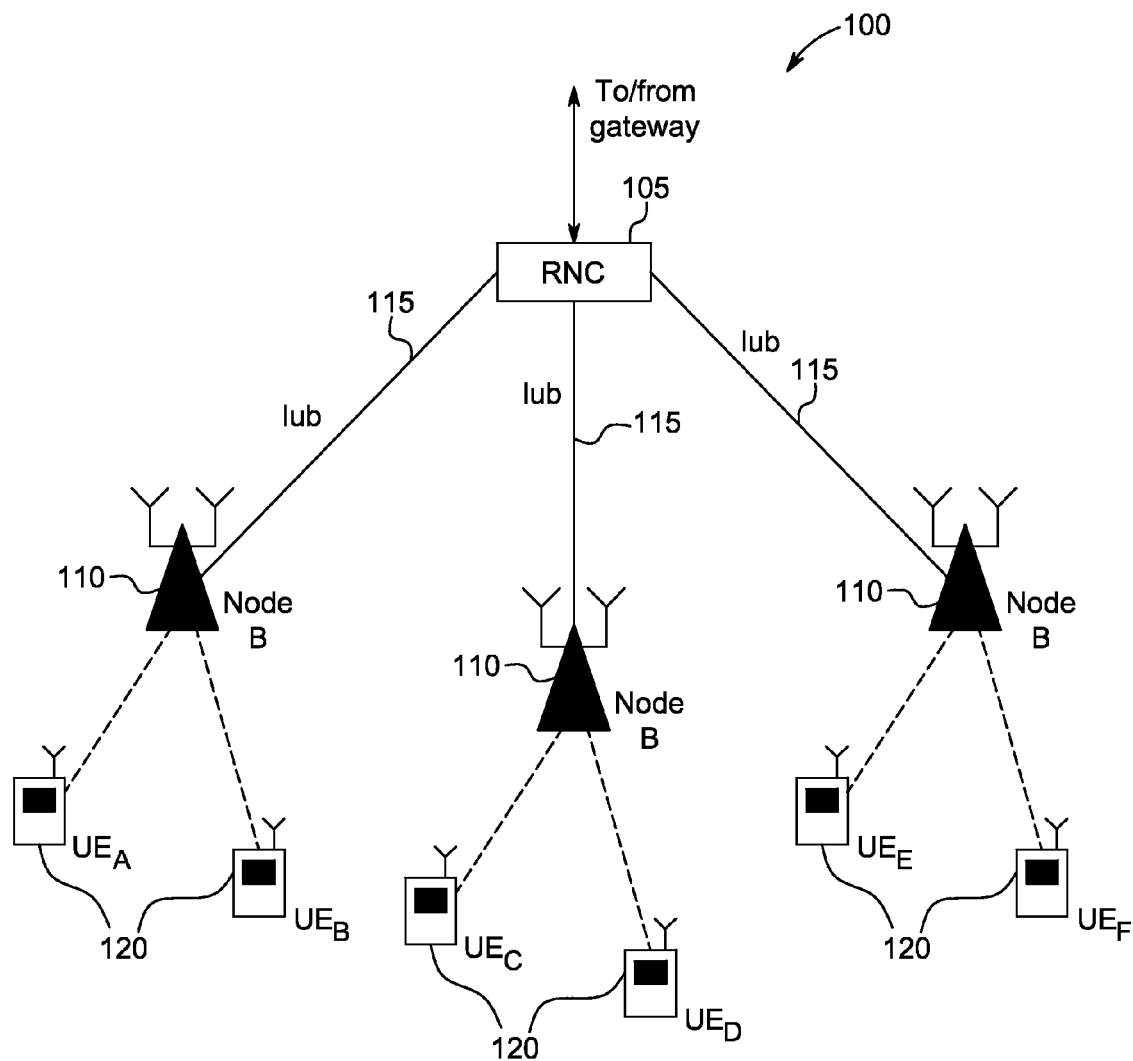


FIG. 1
PRIOR ART

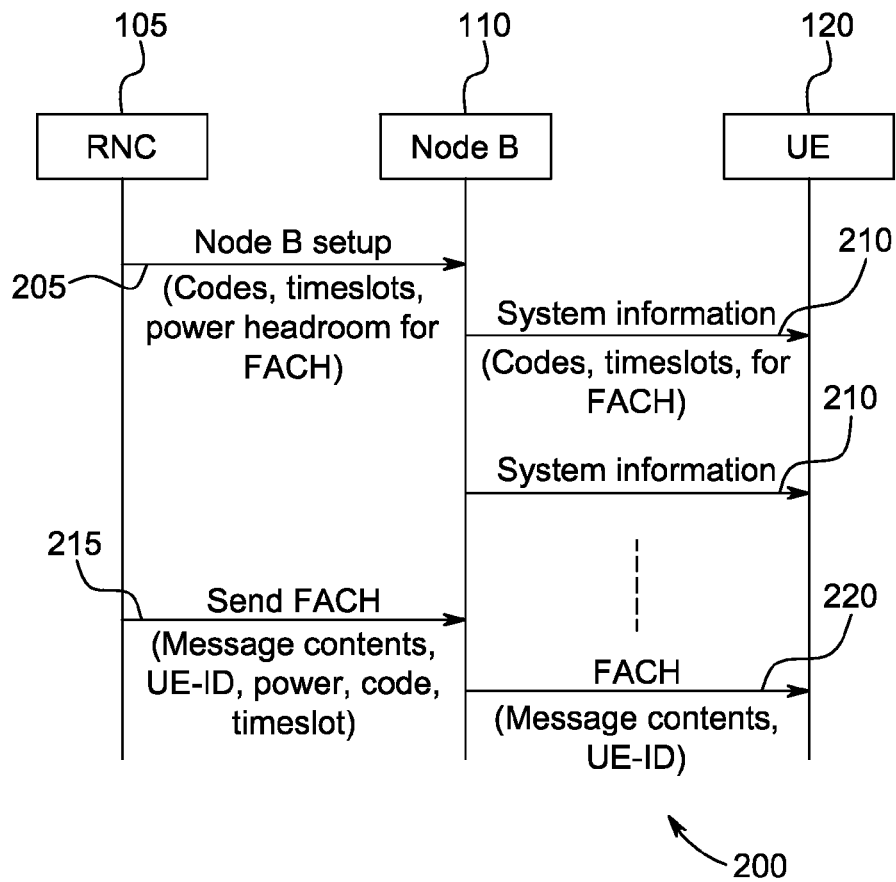


FIG. 2
PRIOR ART

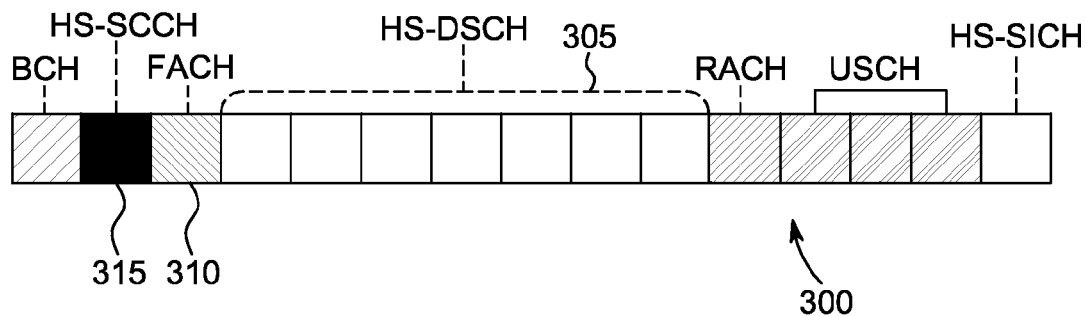


FIG. 3
PRIOR ART

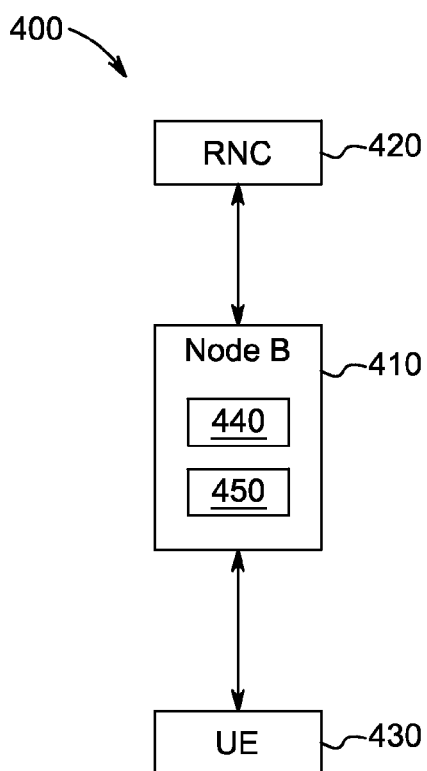


FIG. 4

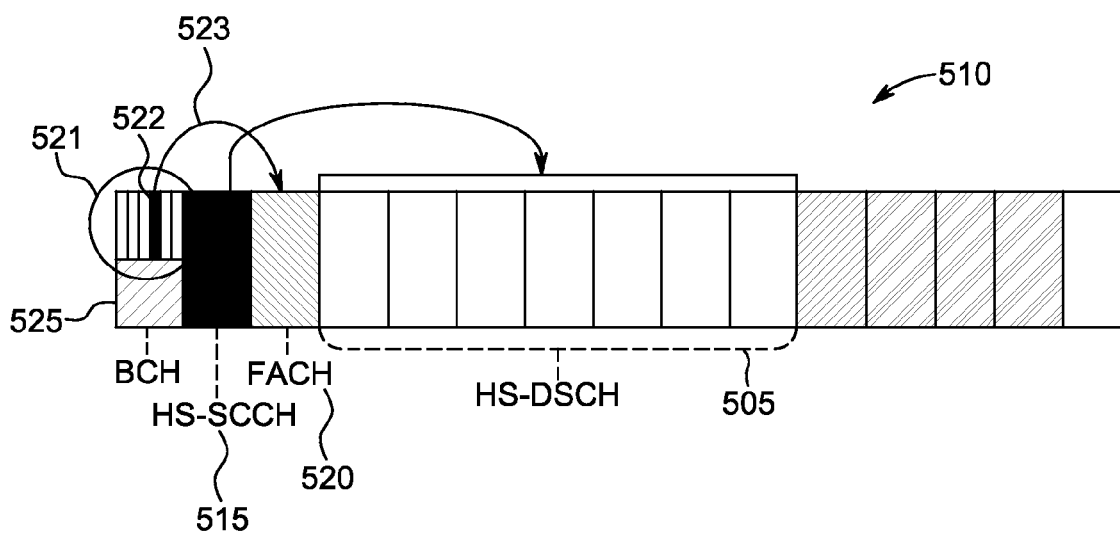


FIG. 5

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