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- (71) Applicant: **QUALCOMM INCORPORATED** [US/US];
ATTN: International IP Administration, 5775 Morehouse
Drive, San Diego, California 92121-1714 (US).
- (72) Inventors: **XU, Huilin**; QUALCOMM INCORPORAT-
ED, 5775 Morehouse Drive, San Diego, California
92121-1714 (US). **WANG, Renqiu**; QUALCOMM IN-
CORPORATED, 5775 Morehouse Drive, San Diego, Cal-
ifornia 92121-1714 (US). **ANG, Peter Pui Lok**; QUAL-
COMM INCORPORATED, 5775 Morehouse Drive, San
Diego, California 92121-1714 (US). **JI, Tingfang**; QUAL-
COMM INCORPORATED, 5775 Morehouse Drive, San
Diego, California 92121-1714 (US). **CHEN, Wanshi**;
QUALCOMM INCORPORATED, 5775 Morehouse Drive,
San Diego, California 92121-1714 (US). **LEI, Jing**;
QUALCOMM INCORPORATED, 5775 Morehouse Drive,
San Diego, California 92121-1714 (US).
- (74) Agent: **HODGES, Jonas J.** et al.; c/o ARENT FOX LLP,
1717 K Street NW, Washington, District of Columbia
20006-5344 (US).

(54) Title: INITIAL CONTROL RESOURCE SET FOR UES HAVING DIFFERENT BANDWIDTH CAPABILITIES

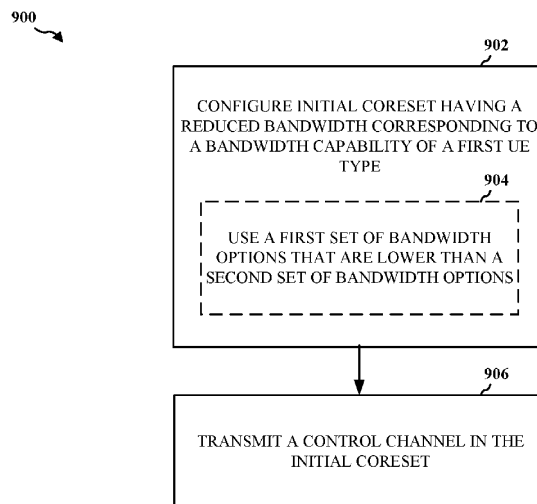


FIG. 9

(57) **Abstract:** Control channel decoding can consume a significant amount of power with respect to the device's total power battery lifetime, as well as being a factor in the complexity of device. Aspects of a method, apparatus, and computer-readable medium are presented herein that provide a solution to the problem of control channel decoding complexity and power requirements by improving the manner in which control channels are decoded. An apparatus configures an initial CORESET having a reduced bandwidth corresponding to a bandwidth capability of a first UE type. The reduced bandwidth having a narrower frequency range than a bandwidth capability of a second UE type. The apparatus may configure a first CORESET for a first UE having a first bandwidth capability and a second CORESET for a second UE having a second bandwidth capability. The apparatus transmits control channel(s) in the configured CORESET(s).

[Continued on next page]

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