

EXHIBIT L



US008396072B2

(12) **United States Patent**
Jokinen et al.

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(45) **Date of Patent:** **Mar. 12, 2013**

(54) **METHOD AND APPARATUS FOR CHANNEL TRAFFIC CONGESTION AVOIDANCE IN A MOBILE COMMUNICATION SYSTEM**

(58) **Field of Classification Search** 370/230, 370/328, 445
See application file for complete search history.

(75) **Inventors:** **Harri A. Jokinen**, Perteli (FI); **David Navratil**, Helsinki (FI); **Simon P. Davis**, Romsey (GB)

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(73) **Assignee:** **Renesas Mobile Corporation**, Tokyo (JP)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 264 days.

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Primary Examiner — Jason Mattis

(74) *Attorney, Agent, or Firm* — Stanton IP Law

(21) **Appl. No.:** **13/031,355**

(22) **Filed:** **Feb. 21, 2011**

(65) **Prior Publication Data**

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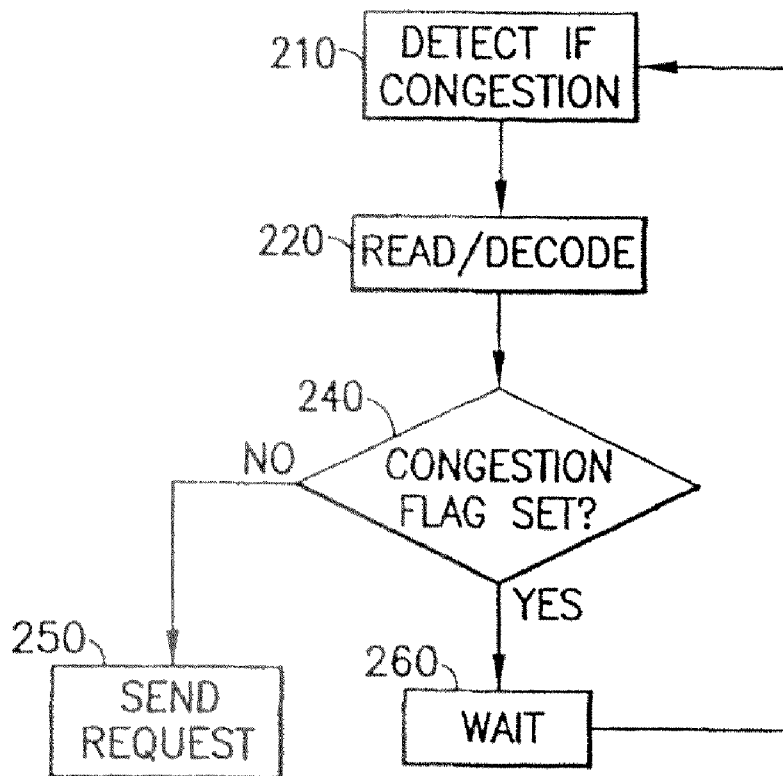
(51) **Int. Cl.**
H04L 12/413 (2006.01)

(57) **ABSTRACT**

An apparatus, comprising at least one processor configured to receive and read a series of blocks on a first channel and determine whether there is congestion and if not transmitting a channel request on a second channel.

(52) **U.S. Cl.** **370/445; 370/230; 370/328**

21 Claims, 4 Drawing Sheets



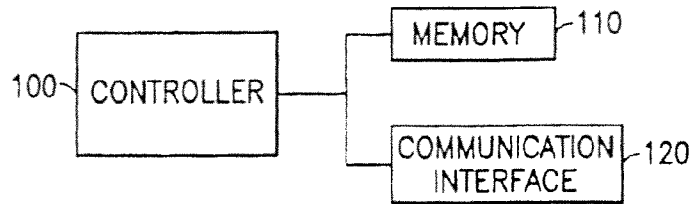


FIG. 1A

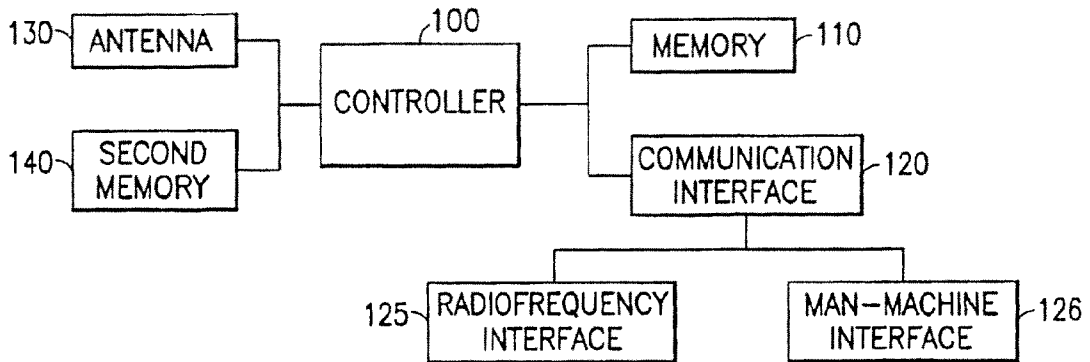


FIG. 1B

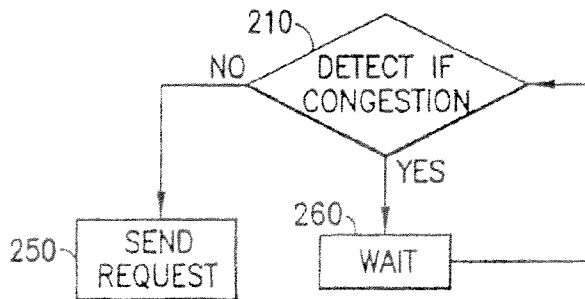


FIG. 2A

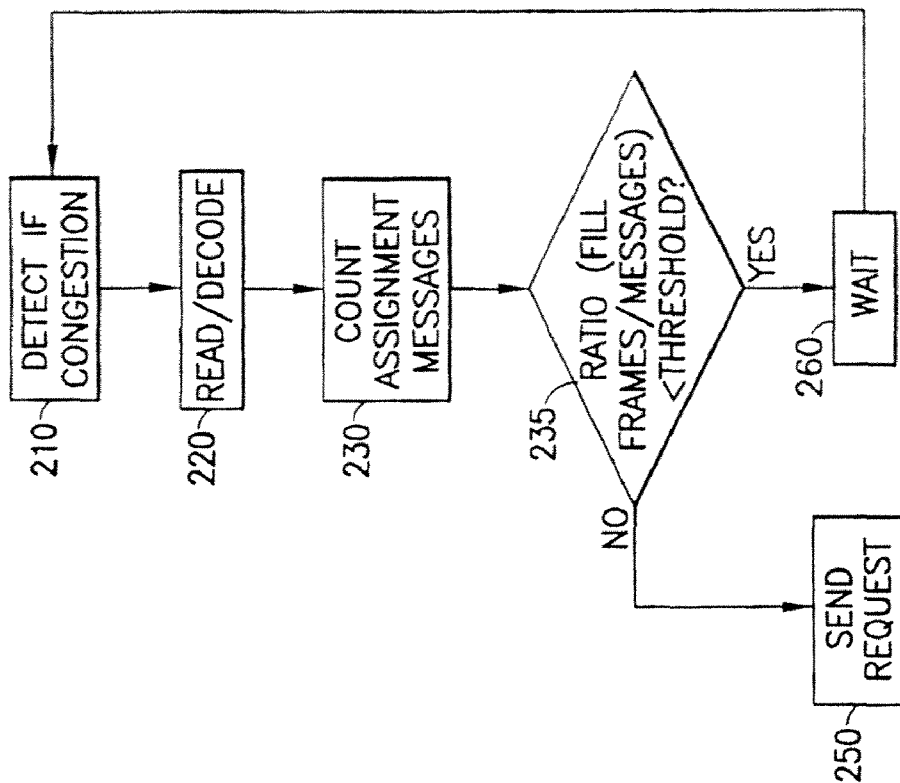


FIG. 2C

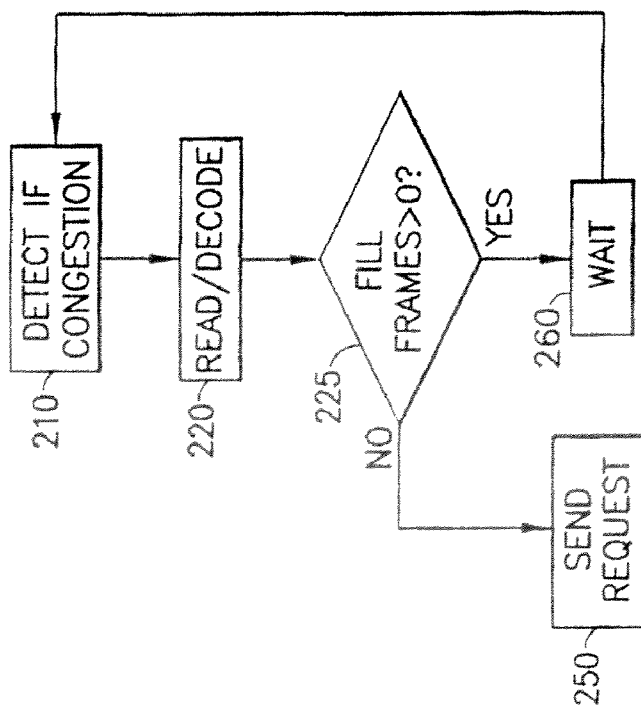


FIG. 2B

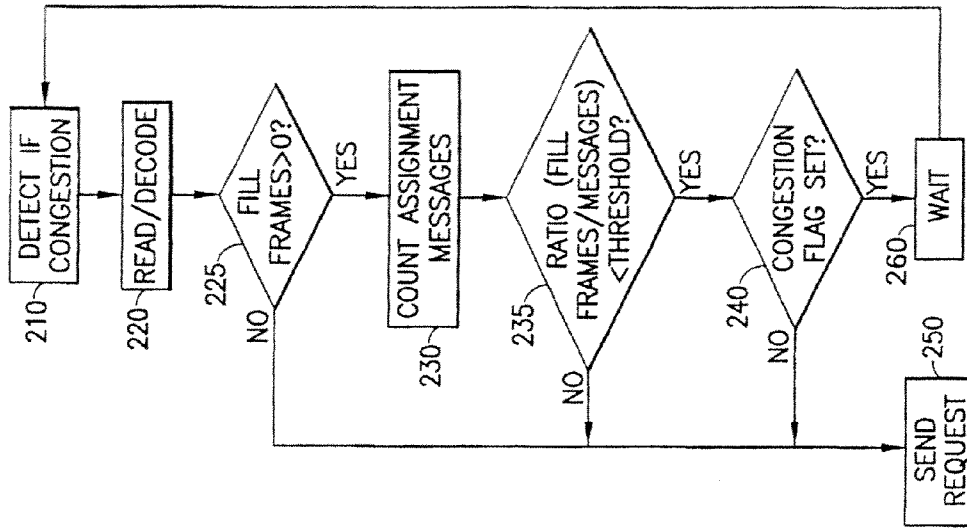


FIG. 2E

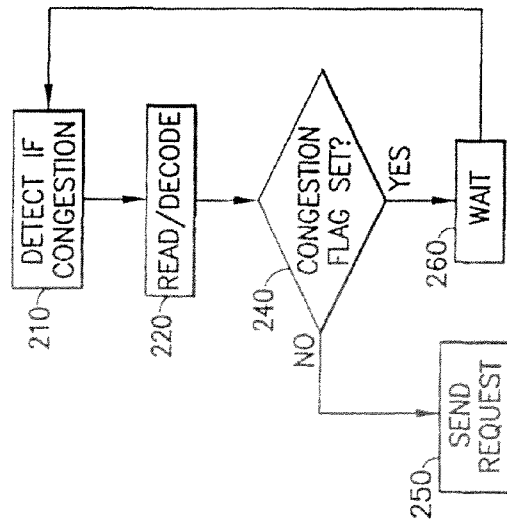


FIG. 2D

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