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(54) **MULTI-CARRIER COMMUNICATION WITH TIME DIVISION MULTIPLEXING AND CARRIER-SELECTIVE LOADING**

Related U.S. Application Data

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(76) Inventors: **Xiaodong Li**, Bellevue, WA (US); **Hui Liu**, Sammamish, WA (US); **Hujun Yin**, Seattle, WA (US)

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Correspondence Address:

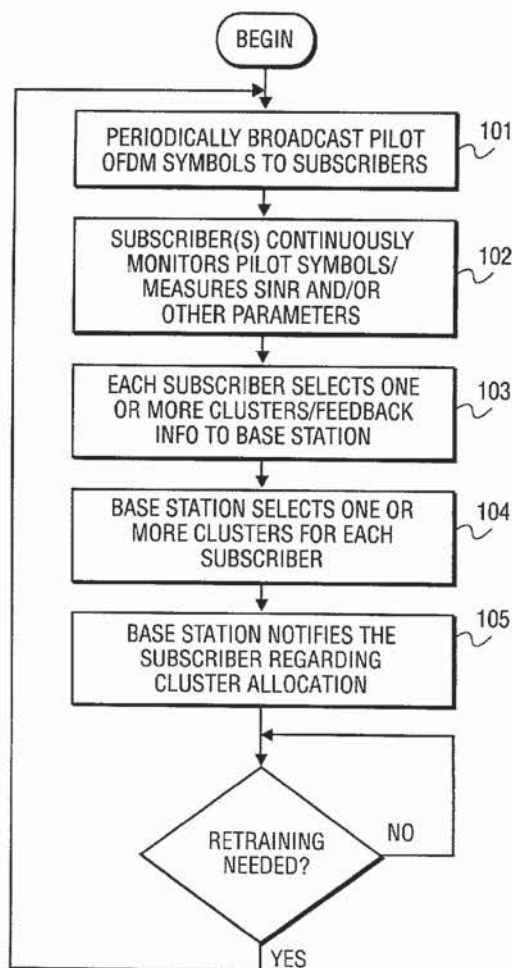
Christian A. Nicholes
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Seventh Floor
12400 Wilshire Boulevard
Los Angeles, CA 90025-1026 (US)

(57) **ABSTRACT**

A method for subcarrier allocation and loading for a multi-carrier, multi-subscriber system is described. At least one cluster in a first and second set of clusters of subcarriers is associated for use in communication with a first and second subscriber, respectively. Then, for each cluster associated for use in communication with the first subscriber and the second subscriber, usage of that cluster is multiplexed between the first subscriber during a first time division and the second subscriber during a second time division.

(21) Appl. No.: **10/051,348**

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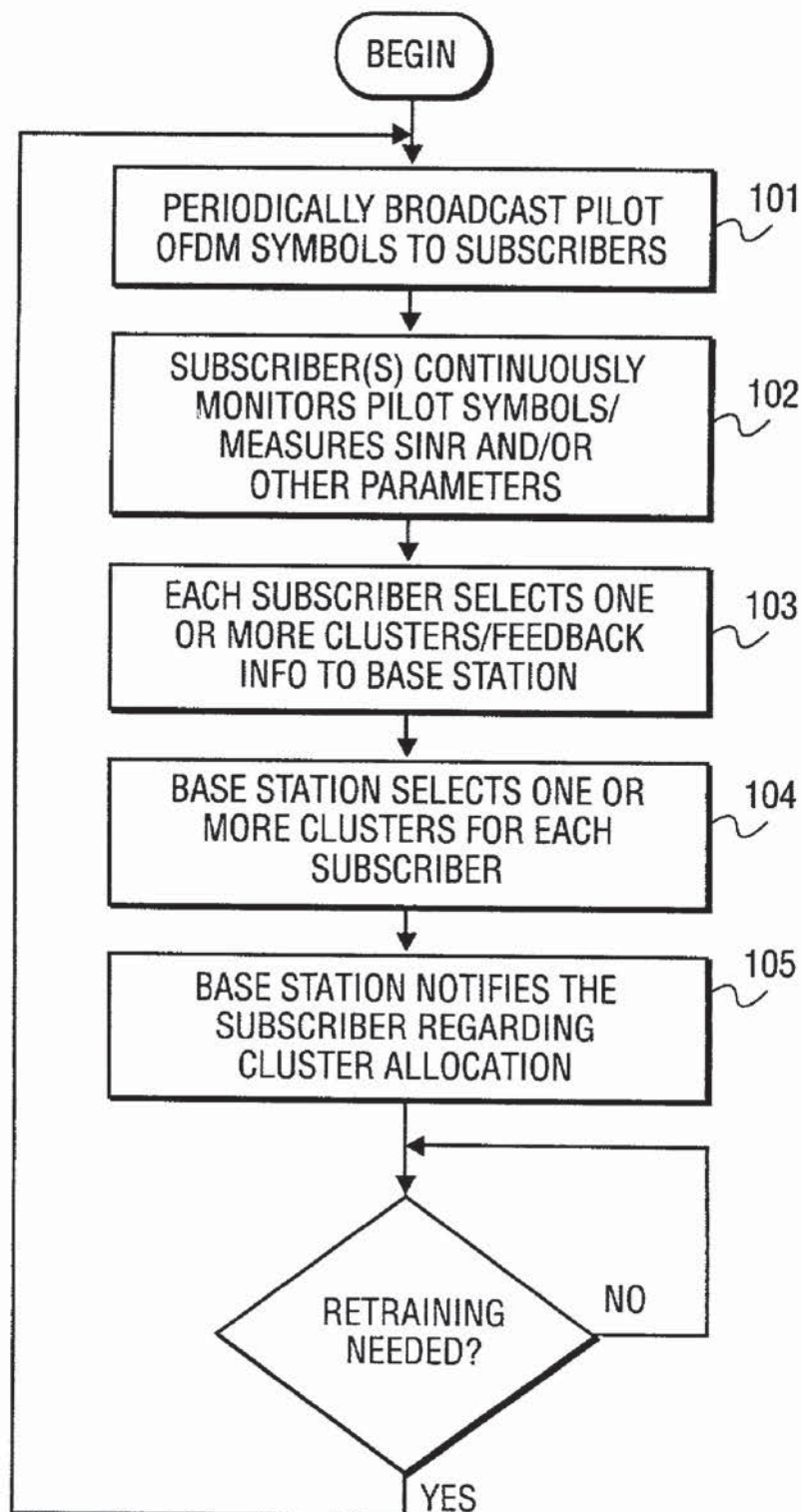


FIG. 1

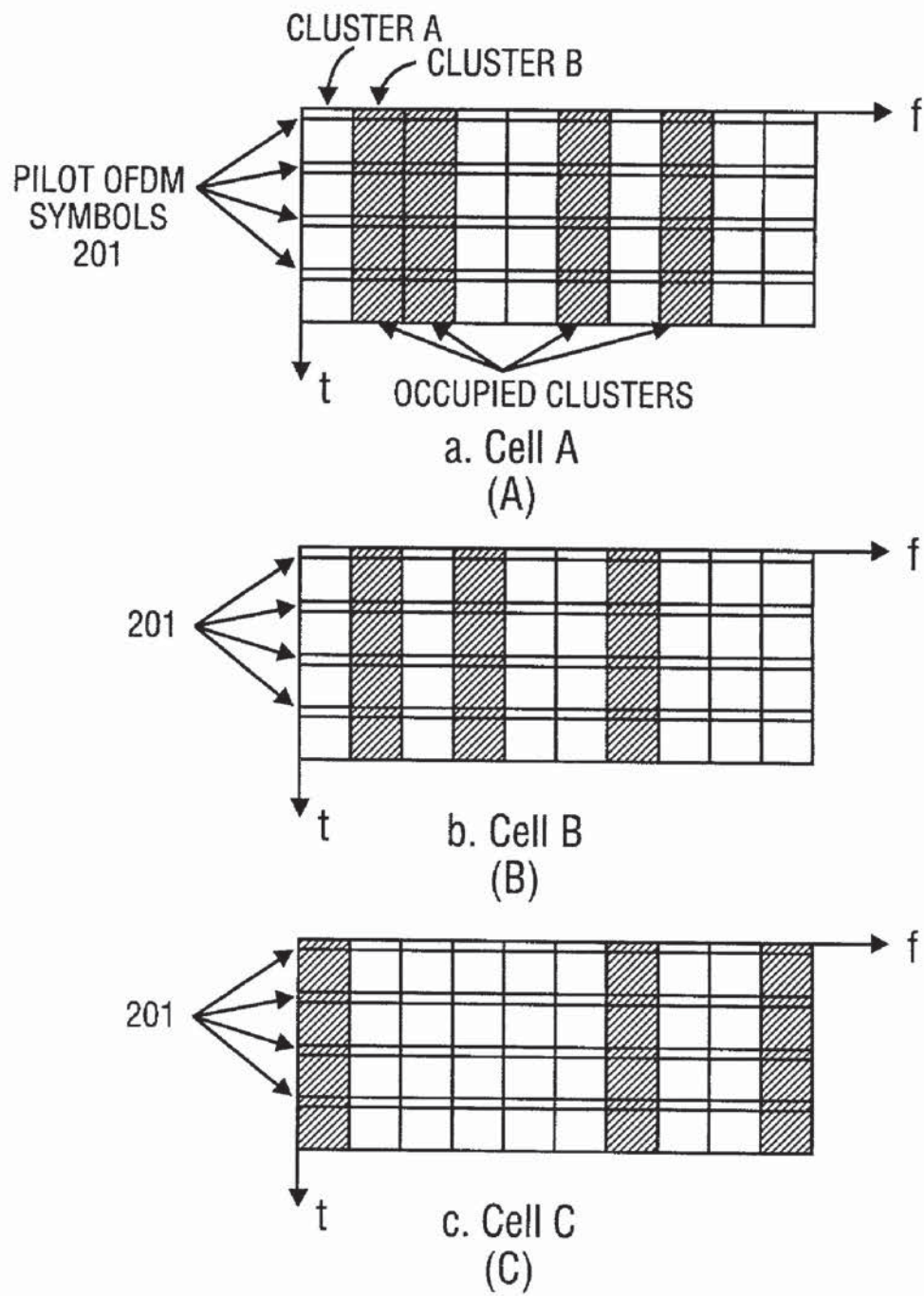


FIG. 2

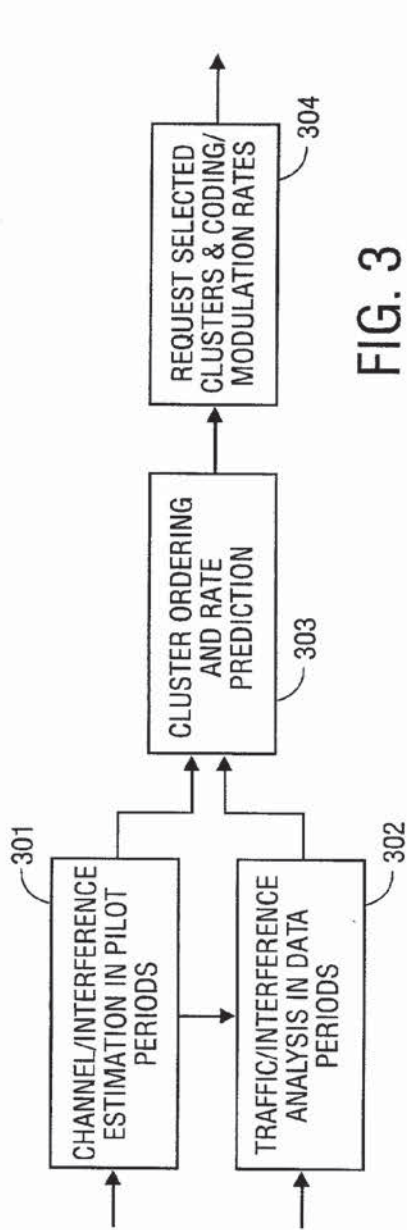


FIG. 3

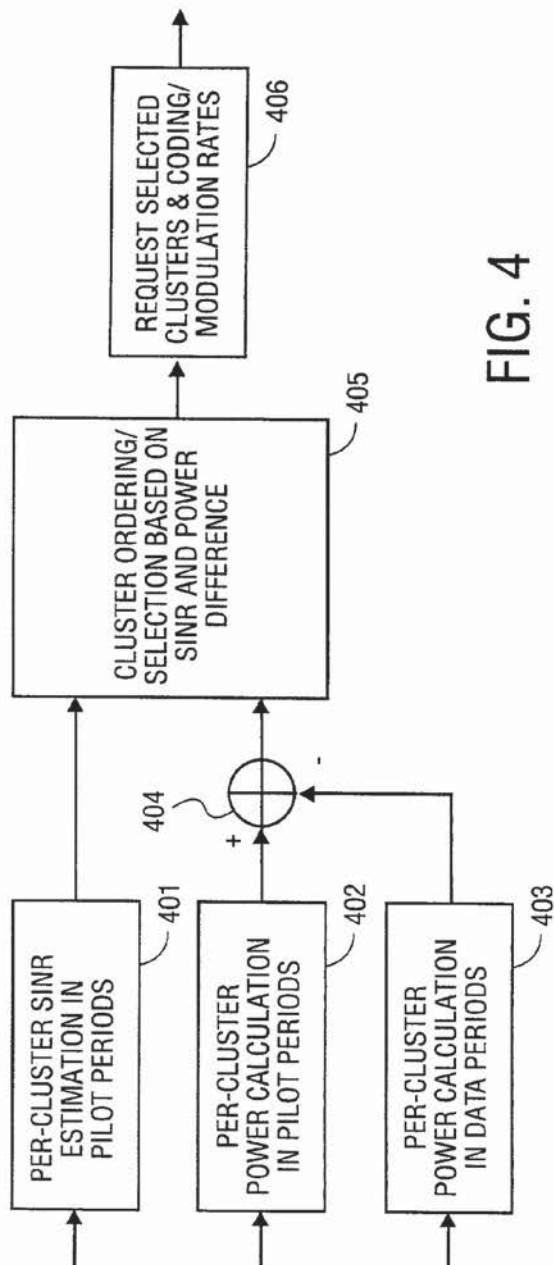


FIG. 4

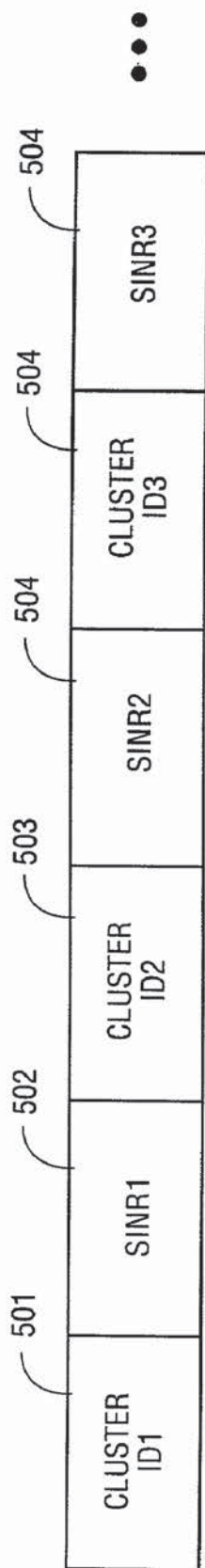


FIG. 5

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