

# EXHIBIT D



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**Karaoguz et al.**

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(54) **AUTOMATIC QUALITY OF SERVICE BASED RESOURCE ALLOCATION**

(56) **References Cited**

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**James D. Bennett**, Hroznetin (CZ)

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/184,799**

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**Related U.S. Application Data**

(63) Continuation of application No. 12/464,255, filed on May 12, 2009, now Pat. No. 7,983,689, which is a continuation of application No. 11/689,995, filed on Mar. 22, 2007, now Pat. No. 7,532,893, which is a continuation of application No. 10/875,891, filed on Jun. 24, 2004, now Pat. No. 7,221,946.

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(51) **Int. Cl.**  
**H04W 72/00** (2009.01)

(52) **U.S. Cl.** ..... **455/452.2**; 455/452.1; 455/462; 455/451

(58) **Field of Classification Search** ..... 455/452.1, 455/452.2, 552.1, 553.1; 370/331, 332, 333  
 See application file for complete search history.

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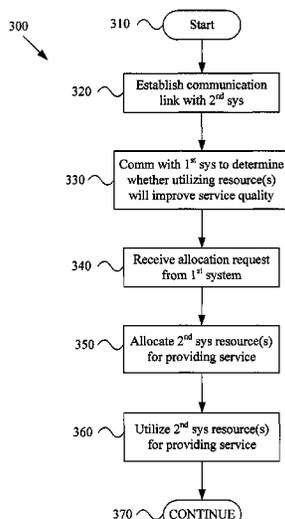
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(57) **ABSTRACT**

A system and method for providing quality-of-service based network resource allocation and utilization in a dynamic network environment. For example, a wireless communication network may comprise a first system and a second system. The first system may provide a current service to a user at a current quality level. The first system and second system may establish a wireless communication link. At least one of the first and second systems may determine whether utilizing one or more resources of the second system will provide the current service to the user at a higher level of quality than the current quality level. One or more resources of the second system may be allocated for providing the current service to a user at a higher quality level. The allocated resources may be utilized to provide the current service to the user at a higher quality level than the current quality level.

**20 Claims, 5 Drawing Sheets**



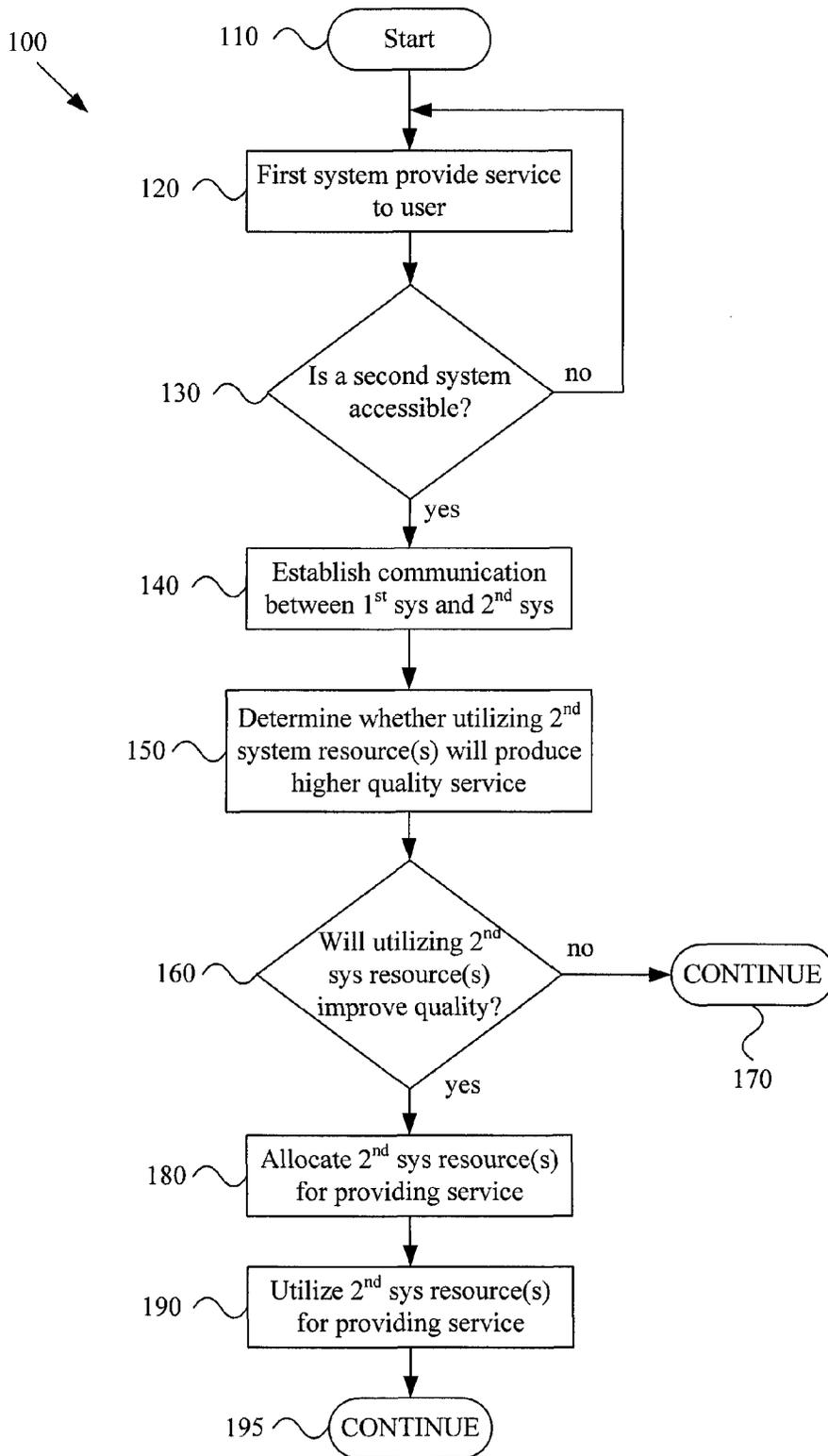


Figure 1

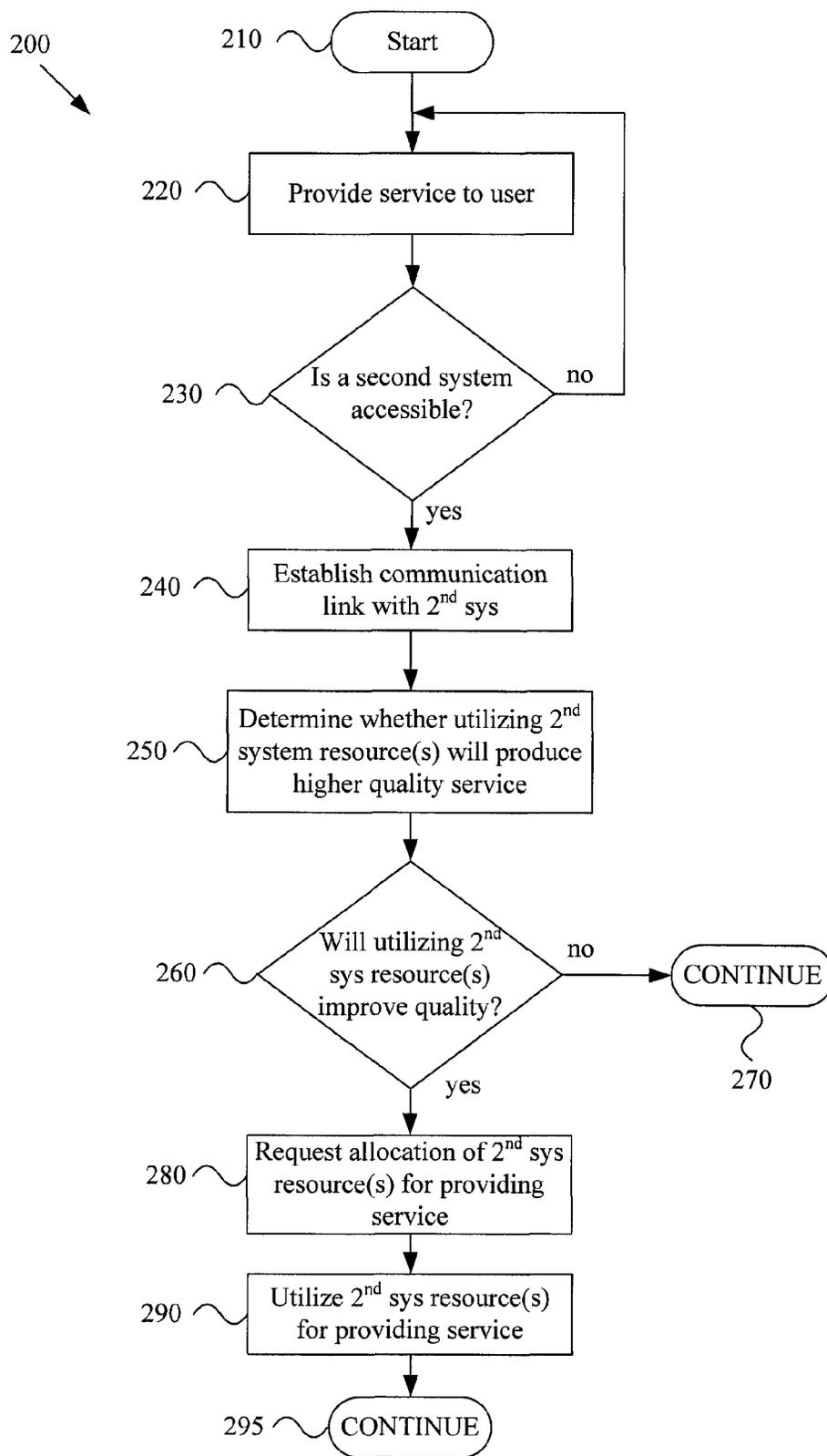


Figure 2

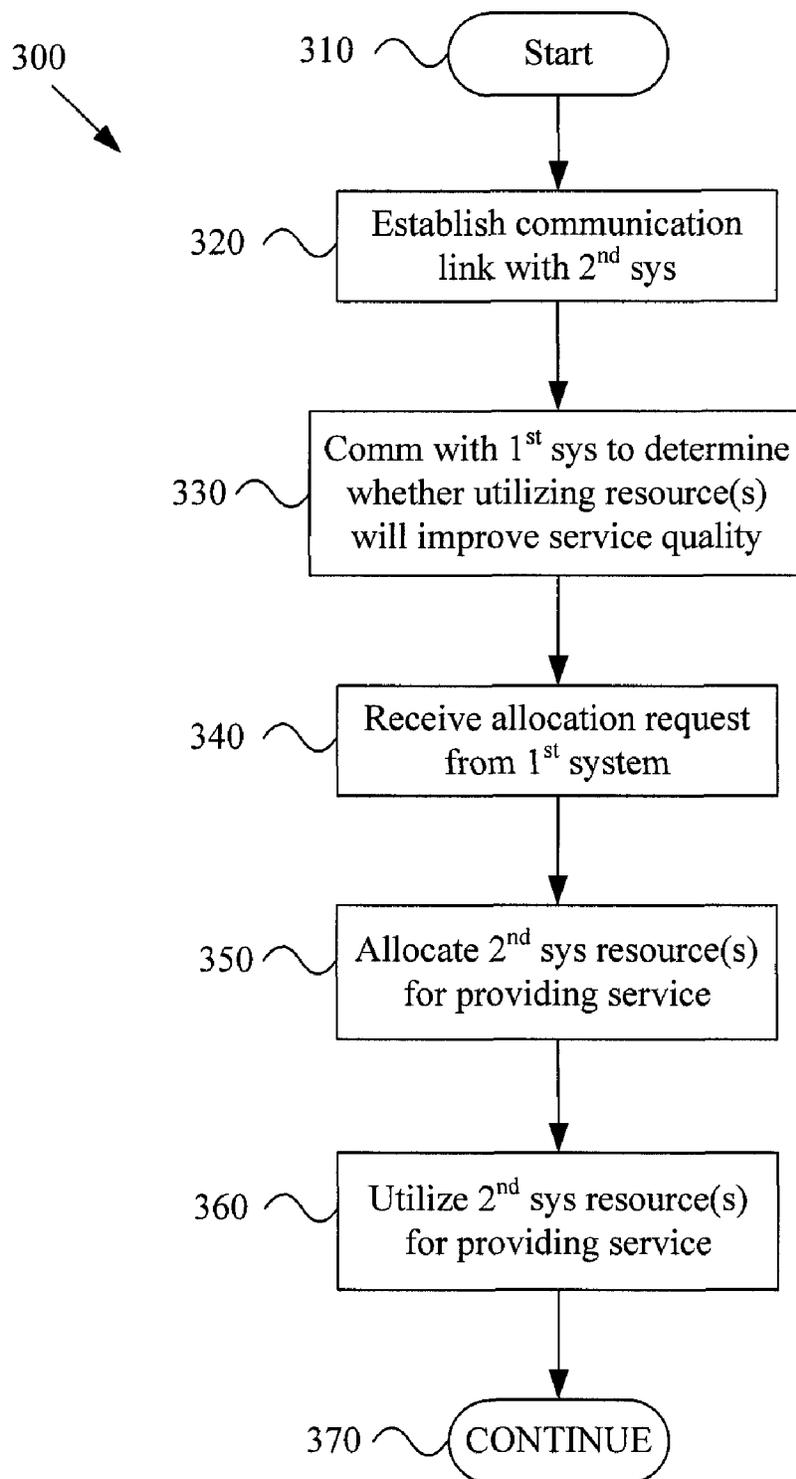


Figure 3

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