

Petitioner Oral Hearing Demonstratives

Apple Inc. and LG Electronics Inc. (Petitioners)  
v.  
Uniloc 2017 LLC (Patent Owner)

Case No. IPR2019-00251  
U.S. Patent No. 6,993,049

Before Hon. Sally C. Medley, Jeffrey S. Smith, and Garth D. Baer  
Administrative Patent Judges

**FISH.**

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# Background

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# Overview of the '049 Patent

(12) **United States Patent**  
Davies

(10) Patent No.: **US 6,993,049 B2**  
(45) Date of Patent: **\*Jan. 31, 2006**

(54) **COMMUNICATION SYSTEM**

(75) Inventor: **Robert J. Davies, Horley (GB)**

(73) Assignee: **Koninklijke Philips Electronics N.V., Eindhoven (NL)**

(\* ) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154 (a)(2).  
Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 635 days.  
This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/876,514**

(22) Filed: **Jun. 7, 2001**

(65) **Prior Publication Data**  
US 2002/0028657 A1 Mar. 7, 2002

(30) **Foreign Application Priority Data**  
Jun. 26, 2000 (GB) ..... 0015454  
Aug. 15, 2000 (GB) ..... 0020076

(51) **Int. Cl.**  
H04J 3/12 (2006.01)  
H04J 3/16 (2006.01)  
H04L 12/403 (2006.01)

(52) U.S. CL. .... **370/528; 370/346; 370/449; 370/465**

(58) **Field of Classification Search** ..... 370/311, 370/312, 328-330, 336, 337, 346, 347, 350, 370/390, 465, 470, 473, 476, 491, 528, 449  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
4,766,434 A \* 8/1988 Matai et al. .... 3407/55  
6,574,266 B1 \* 6/2003 Haarsen ..... 375/133  
6,664,891 B2 \* 12/2003 Davies et al. .... 340/505  
\* cited by examiner  
*Primary Examiner*—Chi Pham  
*Assistant Examiner*—Ronald Abelson

(57) **ABSTRACT**  
A communications system comprises a primary station (100) and at least one secondary station (101). The primary station (100) is arranged to broadcast a series of inquiry messages, each in the form of a plurality of predetermined data fields arranged according to a first communications protocol such as Bluetooth. In addition the primary station (100) adds to some or all of the inquiry messages an additional data field for polling one or more secondary stations, which can respond to the poll if they have data for transmission. This system provides secondary stations (101) with a rapid response time without the need for a permanently active communication link.

12 Claims, 3 Drawing Sheets

- U.S. Patent No. 6,993,049 (the “**049 Patent**” or “**Ex. 1001**”) has an earliest priority claim to GB patent application 0015454 filed June 26, 2000.
- **Challenged Claims**
  - Independent method claim 11
  - Dependent claim 12

Ex. 1001, Face, 7:29-8:50;  
Pet. (Paper 2), 2

Ex. 1001 ('049 Patent): Face

# Background/Problem

## '049 Patent

The present invention relates to a communication system and further relates to primary and secondary stations for use in such a system and to a method of operating such a system.

Although the present invention is described with particular reference to a Bluetooth system, it is applicable to a range of other communication systems.

Ex. 1001, 1:3-7; Pet. 3-4

One application for which use of Bluetooth is proposed is the connection of controller devices to host systems. A controller device, also known as a Human/machine Interface Device (HID), is an input device such as a keyboard, mouse, games controller, graphics pad or the like. Such HID's do not typically require a link having high data throughput, but do require a very responsive link.

A Bluetooth system is more than capable of supporting the throughput requirements of HID's. However, the degree of responsiveness required can be more difficult to achieve. An active Bluetooth link can offer a reasonably responsive service, but this requires both setting up of the link and its maintenance even during periods of inactivity.

Ex. 1001, 1:27-49

## Knutson Dec.

32. However, HID's have several potential problems when setting up a link with a wireless communication network. For example, to set up a link, a HID has to execute connection procedures (e.g., inquiry and page procedures) that are performed over tens of seconds, resulting in delays for the HID to join the network. Ex. 1001, 1:34-61. Inefficiencies also occur if the HID is designed to connect to the network automatically when a host system is turned on, because the HID has "to be regularly waking up to look for ... inquiry bursts, thereby consuming power, or it will need to be manually woken up by the user." Ex. 1001, 1:62-2:3.

Ex. 1003, ¶ [32]; Pet. 3-4

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