

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
Jacob W. JORGENSEN

Appl. No. 09/349,477  
Confirmation No.

Filed: July 9, 1999

For: **TRANSMISSION CONTROL  
PROTOCOL/INTERNET  
PROTOCOL (TCP/IP)  
PACKET-CENTRIC WIRELESS  
POINT TO MULTI-POINT  
(PTMP) TRANSMISSION  
SYSTEM ARCHITECTURE**

Art Unit: 2155

Examiner:  
Philip B. Tran

Atty. Docket No. 36792-162236  
(formerly A-21505)

Customer No.



26694

PATENT TRADEMARK OFFICE

**After Final Amendment and Reply Under 37 C.F.R. §§ 1.116**

Honorable Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In reply to the **Final Office Action** dated October 5, 2001 (PTO Prosecution File Wrapper Paper No. 10) and in furtherance of Applicant's personal interview with Examiners Philip Tran and Ario Etienne on November 08, 2001, Applicant submits the following Amendment and Reply.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper.

DC2/334360.1

Intellectual Ventures I LLC

However, if additional extensions of time are needed to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims), and any other fee deficiency are hereby authorized to be charged, and any overpayments credited to, our Deposit Account No. 22-0261.

*Amendments*

*In the Claims:*

Please amend claims as follows:

1. A packet-centric wireless point to multi-point telecommunications system comprising:
  - a wireless base station communicating via a packet-centric protocol to a first data network;
  - one or more host workstations communicating via said packet-centric protocol to said first data network;
  - one or more subscriber customer premise equipment (CPE) stations coupled with said wireless base station over a shared wireless bandwidth via said packet-centric protocol over a wireless communication medium, wherein said packet-centric protocol used over said wireless communication medium is not circuit-centric, and wherein real-time wireless bandwidth allocations and system resource allocations are determined according to packet contents; and
  - one or more subscriber workstations coupled via said packet-centric protocol to each of said subscriber CPE stations over a second network.

2. The system of claim 1, wherein said packet-centric protocol is transmission control protocol/internet protocol (TCP/IP).

3. The system of claim 1, wherein said packet-centric protocol is user datagram protocol/internet protocol (UDP/IP).

4. The system of claim 1, further comprising:  
resource allocation means for allocating said shared wireless bandwidth among said subscriber CPE stations.

5. The system of claim 4, wherein said resource allocation means allocates said shared wireless bandwidth so as to optimize end-user quality of service (QoS).

6. The system of claim 1, wherein said wireless communication medium comprises at least one of:

a radio frequency (RF) communications medium;

a cable communications medium; and

a satellite communications medium.

7. The system of claim 6, wherein said wireless communication medium further comprises, a telecommunications access method including at least one of:

a time division multiple access (TDMA) access method;

a time division multiple access / time division duplex (TDMA/TDD) access method;

a code division multiple access (CDMA) access method; and  
a frequency division multiple access (FDMA) access method.

8. The system of claim 1, wherein said first data network comprises at least one  
of:

a wireline network;  
a wireless network;  
a local area network (LAN); and  
a wide area network (WAN).

9. The system of claim 1, wherein said second network comprises at least one  
of:

a wireline network;  
a wireless network;  
a local area network (LAN); and  
a wide area network (WAN).

10. The system of claim 1, further comprising:  
a resource allocator that allocates said shared wireless bandwidth among said  
subscriber CPE stations.

11. The system of claim 10, wherein said resource allocator optimizes end-user  
quality of service (QoS).

12. The system of claim 10, wherein said resource allocator is application aware.

13. A packet-centric wireless point to multi-point telecommunications system comprising:

a wireless base station communicating via a packet-centric protocol to a first data network, wherein said packet-centric protocol comprises at least one of a transmission control protocol/internet protocol (TCP/IP), and a user datagram protocol/internet protocol (UDP/IP);

one or more host workstations communicating via said packet-centric protocol to said first data network;

one or more subscriber customer premise equipment (CPE) stations coupled with said wireless base station over a shared wireless bandwidth via said packet-centric protocol over a wireless communication medium, wherein said packet-centric protocol used over said wireless communication medium is not circuit-centric, and wherein real-time wireless bandwidth and system resource allocations are determined according to packet contents; and

one or more subscriber workstations coupled via said packet-centric protocol to each of said subscriber CPE stations over a second network.

14. The system of claim 13, further comprising:

resource allocation means for allocating said shared wireless bandwidth among said subscriber CPE stations and wherein said resource allocation means comprises means for performing bandwidth allocation to ensure optimal end-user quality of service (QoS).

15. The system of claim 13, wherein said wireless communication medium

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