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Attorney Docket No. 030048002US



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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: FRED B. HOLT *ET AL.*  
APPLICATION NO.: 09/629,570  
FILED: JULY 31, 2000  
FOR: **JOINING A BROADCAST CHANNEL**

EXAMINER: BRADLEY E. EDELMAN  
ART UNIT: 2153  
CONF. NO: 5411

**Amendment Under 37 C.F.R. § 1.111**

**RECEIVED**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Sir:

MAY 17 2004

Technology Center 2100

The present communication responds to the Office Action dated January 12, 2004 in the above-identified application. Please extend the period of time for response to the Office Action by one month to expire on May 12, 2004. Enclosed is a Petition for Extension of Time and the corresponding fee. Please amend the application as follows:

**Amendments to the Specification** begin on page 2.

**Amendments to the Claims** are reflected in the listing of claims beginning on page 4.

**Remarks/Arguments** begin on page 8.



**Amendments to the Specification:**

In accordance with 37 CFR 1.72(b), an abstract of the disclosure has been included below. In addition, the status of the related cases listed on page 1 of the specification has been updated.

Therefore, please add the Abstract as shown below:

A technique for adding a participant to a network is provided. This technique allows for the simultaneous sharing of information among many participants in a network without the placement of a high overhead on the underlying communication network. To connect to the broadcast channel, a seeking computer first locates a computer that is fully connected to the broadcast channel. The seeking computer then establishes a connection with a number of the computers that are already connected to the broadcast channel. The technique for adding a participant to a network includes identifying a pair of participants that are connected to the network, disconnecting the participants of the identified pair from each other, and connecting each participant of the identified pair of participants to the added participant.

Please amend the "Cross-Reference to Related Applications" to read as follows:

This application is related to U.S. Patent Application No. 09/629,576, entitled "BROADCASTING NETWORK," filed on July 31, 2000 (Attorney Docket No. 030048001 US); U.S. Patent Application No. 09/629,570, entitled "JOINING A BROADCAST CHANNEL," filed on July 31, 2000 (Attorney Docket No. 030048002 US); U.S. Patent Application No. 09/629,577, "LEAVING A BROADCAST CHANNEL," filed on July 31, 2000 (Attorney Docket No. 030048003 US); U.S. Patent Application No. 09/629,575, entitled "BROADCASTING ON A BROADCAST CHANNEL," filed on July 31, 2000 (Attorney Docket No. 030048004 US); U.S. Patent Application No. 09/629,572, entitled "CONTACTING A BROADCAST CHANNEL," filed on July 31, 2000 (Attorney Docket No. 030048005 US);

U.S. Patent Application No. 09/629,023, entitled "DISTRIBUTED AUCTION SYSTEM," filed on July 31, 2000 (Attorney Docket No. 030048006 US); U.S. Patent Application No. 09/629,043, entitled "AN INFORMATION DELIVERY SERVICE," filed on July 31, 2000 (Attorney Docket No. 030048007 US); U.S. Patent Application No. 09/629,024, entitled "DISTRIBUTED CONFERENCING SYSTEM," filed on July 31, 2000 (Attorney Docket No. 030048008 US); and U.S. Patent Application No. 09/629,042, entitled "DISTRIBUTED GAME ENVIRONMENT," filed on July 31, 2000 (Attorney Docket No. 030048009 US), the disclosures of which are incorporated herein by reference.



**Amendments to the Claims:**

Following is a complete listing of the claims pending in the application, as amended:

1. (Currently amended) A computer-based, non-routing table based, non-switch based method for adding a participant to a network of participants, each participant being connected to three or more other participants, the method comprising:

identifying a pair of participants of the network that are connected wherein a seeking participant contacts a fully connected portal computer, which in turn sends an edge connection request to a number of randomly selected neighboring participants to which the seeking participant is to connect;

disconnecting the participants of the identified pair from each other; and

connecting each participant of the identified pair of participants to ~~the added~~ the seeking participant.

2. (Original) The method of claim 1 wherein each participant is connected to 4 participants.

3. (Original) The method of claim 1 wherein the identifying of a pair includes randomly selecting a pair of participants that are connected.

4. (Original) The method of claim 3 wherein the randomly selecting of a pair includes sending a message through the network on a randomly selected path.

5. (Original) The method of claim 4 wherein when a participant receives the message, the participant sends the message to a randomly selected participant to which it is connected.

6. (Currently amended) The method of claim 4 wherein the randomly selected path is ~~approximately~~ proportional to the diameter of the network.

7. (Original) The method of claim 1 wherein the participant to be added requests a portal computer to initiate the identifying of the pair of participants.

8. (Original) The method of claim 7 wherein the initiating of the identifying of the pair of participants includes the portal computer sending a message to a connected participant requesting an edge connection.

9. (Currently amended) The method of claim 8 wherein the portal computer indicates that the message is to travel a ~~certain~~ distance proportional to the diameter of the network and wherein the participant that receives the message after the message has traveled that ~~certain~~ distance is one of the participants of the identified pair of participants.

10. (Currently amended) The method of claim 9 wherein the certain distance is ~~approximately~~ twice the diameter of the network.

11. (Original) The method of claim 1 wherein the participants are connected via the Internet.

12. (Original) The method of claim 1 wherein the participants are connected via TCP/IP connections.

13. (Original) The method of claim 1 wherein the participants are computer processes.

14. (Currently amended) A computer-based, non-switch based method for adding nodes to a graph that is m-regular and m-connected to maintain the graph as m-regular, where m is four or greater, the method comprising:

identifying p pairs of nodes of the graph that are connected, where p is one half of  $m_2$

wherein a seeking node contacts a fully connected portal node, which in turn

sends an edge connection request to a number of randomly selected neighboring

nodes to which the seeking node is to connect;

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