

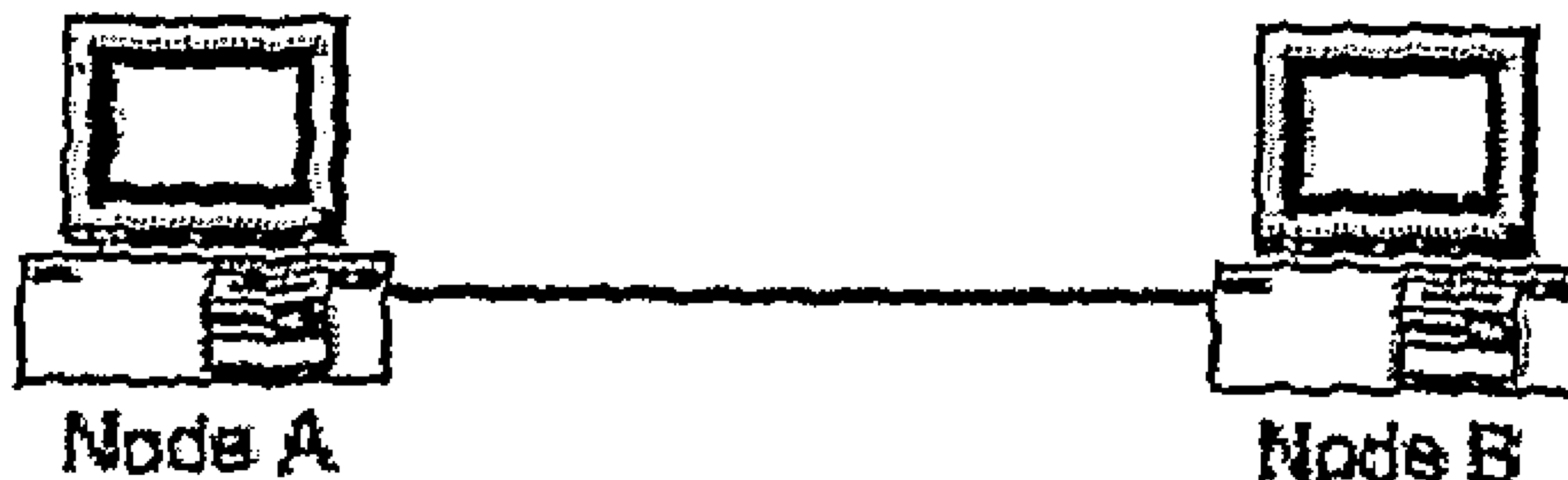


(86) Date de dépôt PCT/PCT Filing Date: 2006/04/11
(87) Date publication PCT/PCT Publication Date: 2006/10/19
(85) Entrée phase nationale/National Entry: 2007/10/11
(86) N° demande PCT/PCT Application No.: US 2006/013666
(87) N° publication PCT/PCT Publication No.: 2006/110823
(30) Priorité/Priority: 2005/04/12 (US11/103,672)

(51) Cl.Int./Int.Cl. *H04L 12/16* (2006.01),
G06F 17/30 (2006.01)
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(54) Titre : SYSTEME ET PROCEDE POUR LA RECHERCHE DE TYPES SPECIFIQUES DE PERSONNES OU
D'INFORMATION SUR UN RESEAU POSTE A POSTE

(54) Title: SYSTEM AND METHOD FOR SEARCHING FOR SPECIFIC TYPES OF PEOPLE OR INFORMATION ON A
PEER-TO-PEER NETWORK



(57) Abrégé/Abstract:

The present invention provides a system and a method for searching for specific types of people or specific types of information on a Peer-to-Peer network, and in particular, using specific types of search terms as a means of profiling to find specific types of information or specific types of people on a Peer-to-Peer network. When a specific type of person or specific type of information is needed, a specific type of search term is issued on the Peer-to-Peer network. If that specific type of person or specific type of information is available a response will be received.



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 October 2006 (19.10.2006)

PCT

(10) International Publication Number
WO 2006/110823 A2

(51) International Patent Classification:

H04N 7/18 (2006.01) *H04N 7/16* (2006.01)
H04N 7/173 (2006.01) *H04N 5/445* (2006.01)

(21) International Application Number:

PCT/US2006/013666

(22) International Filing Date: 11 April 2006 (11.04.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/103,672 12 April 2005 (12.04.2005) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

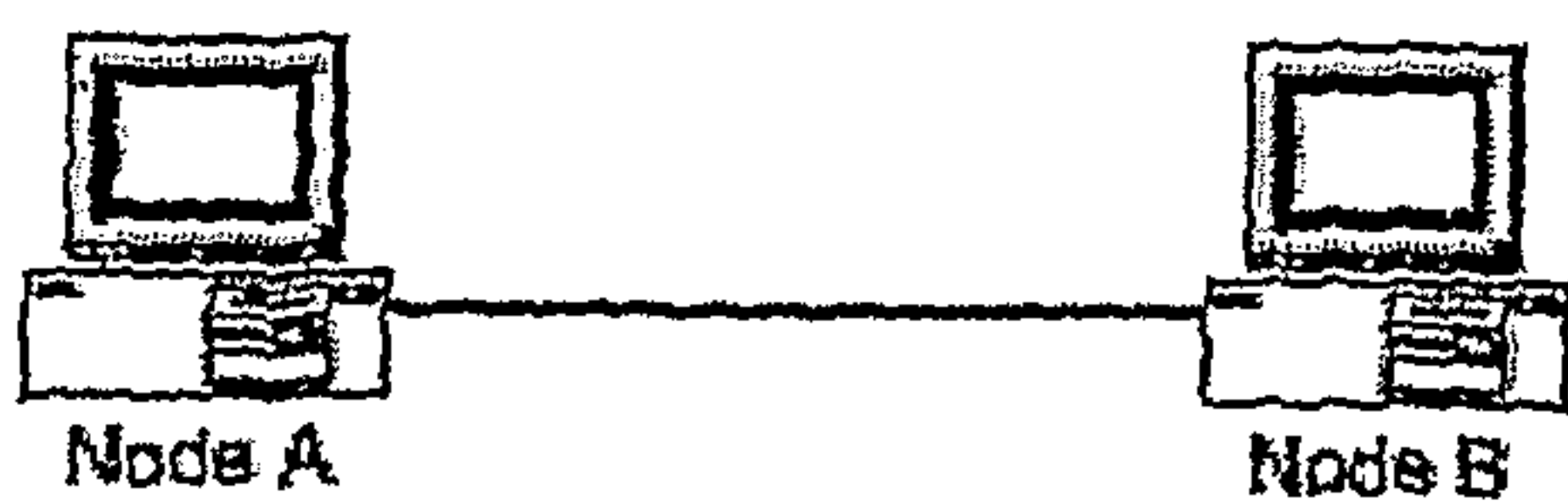
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- without international search report and to be republished upon receipt of that report

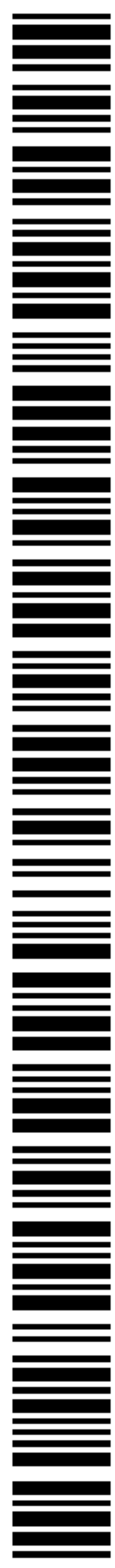
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(54) Title: SYSTEM AND METHOD FOR SEARCHING FOR SPECIFIC TYPES OF PEOPLE OR INFORMATION ON A PEER-TO-PEER NETWORK



received.

(57) Abstract: The present invention provides a system and a method for searching for specific types of people or specific types of information on a Peer-to-Peer network, and in particular, using specific types of search terms as a means of profiling to find specific types of information or specific types of people on a Peer-to-Peer network. When a specific type of person or specific type of information is needed, a specific type of search term is issued on the Peer-to-Peer network. If that specific type of person or specific type of information is available a response will be



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Title

System and Method for Searching for Specific Types of People or Information on a Peer-to-Peer Network

Related Patent Application

5 This is a continuation-in-part of United State Patent Application Serial No. 10/764,111 filed on January 23, 2004 entitled "Method for Monitoring and Providing Information Over a Peer to Peer Network.

Field of the Invention

10 The present invention provides a system for searching for specific types of people or specific types of information on a Peer-to-Peer network, and in particular, using specific types of search terms as a means of profiling to find specific types of information or specific types of people on a Peer-to-Peer network. A method for searching for specific types of people or information on a Peer-to-Peer network is also provided.

Background of the Invention

15 As used herein, peer to peer networks which are the subject of the present invention comprise multiple nodes, each node typically consisting both of file server and client which can send and receive data or "Communication messages" to or from a node to which such is connected.

20 In a peer to peer network each node is connected to other nodes over a communication medium such as the internet either directly or through some type of proxy. For example, when a search request is issued such originating node sends a search request to all of the nodes to which it is connected. (see Figure 1) These nodes search their list of available files and if a match is found they send a response back with the location. However, a peer to peer proxy network typically consists of node A which is
25 connected to a node B and node B is connected to a node C. (see Figure 2) Node A is not connected to node C such that if node A issues a search request it will be forwarded to node B and Node B will search its available files and if a match is found it will send a

response back to node A. Node B will then forward node A's request to node C and Node C will search its available files and if a match is found it will send a response back to node B. Node B will then forward this response to node A. Figure 3 discloses a nonproxy loop network wherein each node is directly connected to another.

5 Some peer to peer networks utilize a leaf node/main node proxy topology (See Figure 4) where some nodes are classified as main nodes and the remaining nodes are classified as leaf nodes. Leaf nodes can only connect to main nodes. Only main nodes can connect to other main nodes. When a leaf node issues a search request it sends the request to the main node that it is connected to. The main node then forwards the request to any
10 other leaf nodes that are connected to it and also to any main nodes it is connected to. These main nodes forward the request to any leaf nodes that are connected to them.

Commonly these networks are used to share music, movies, and software files among its users. To access this network a user installs a Peer-to-Peer client software application that is capable of connecting to, and utilizing the Peer-to-Peer network. When
15 installing the software the user must select a folder on their computer system in which to store any downloaded files. Any files placed into this folder are also made available to other users. For instance, if user #1 places a file named "foofile" in their shared folder, user #2 would then be able to access and download the file.

For whatever reason, users sometimes select a folder as the shared folder that
20 contains sensitive information or information they do not otherwise wish to share or they may later begin to place sensitive information or information they do not otherwise wish to share into their shared folder by mistake. Usually this action is done by mistake and unknowingly by the user but sometimes it is done by a malicious person. Sometimes the Peer-to-Peer client software has a software bug that permits the sharing of files and
25 directories that the user never intended to be shared. Sometimes it is a violation of corporate policy to have Peer-to-Peer client software installed.

The information shared may be detrimental the user, the company they work for, or even to national security. For instance, an employee of company "A" may inadvertently be sharing confidential information on company "B." It would therefore be
30 advantageous to locate these people who are sharing sensitive or protected information so

that the information can be removed or the person can be made to stop sharing the information.

Accordingly it is an object of the present invention to provide a method for locating specific types of people or specific information on Peer-to-Peer networks by issuing specific search terms that would result in locating and identifying information that should not be shared.

SUMMARY OF THE INVENTION

Generally, the present invention provides a system for locating specific types of people or specific types of information by issuing specific search terms known to result in a response from a specific type of person or a response by someone with a specific type of information. The preferred system comprises:

- a. a storage medium for storing instructions;
- b. a user input device for receiving user input; and
- c. a processor unit operable to process the user input and to use the instructions to execute a program to:
 - i. connect to the Peer-to-Peer network; and
 - ii. issue a search for a specific term or specific group of terms for a specific type of person or a specific type of information.

The present invention also provides a method for locating specific types of people or specific types of information.

Other advantages of the present invention will become apparent from a perusal of the following detailed description of presently preferred embodiments of the invention.

Brief Description of the Drawings

- Figure 1 is a simplified schematic of a two node peer to peer network;
- Figure 2 is a simplified schematic of a peer to peer proxy network;
- Figure 3 is a simplified schematic view of a peer to peer, nonproxy, loop network.

Description of Presently Preferred Embodiments

The preferred system of the present invention advantageously utilizes specific terms or groups of terms to locate specific types of people or specific types of information.

5 In the preferred embodiment, the invention is embodied in a computer system that contains a processor unit, main memory, and an interconnect bus. The processor unit may contain a single microprocessor, or may contain a plurality of microprocessors for configuring the computer as a multi-processor system. The main memory stores, in part, instructions and data for execution by the processor unit. If the ability of the inventive
10 system is wholly or partially implemented in software, the main memory stores the executable code when in operation. The main memory may include banks of dynamic random access memory as well as high speed memory.

The computer system may further include a mass storage device, peripheral devices, portable storage medium drives, input control device, a graphics subsystem, and
15 an output display. The computer system may be connected through one or more data transport means. For example, the processor unit and the main memory may be connected via a local microprocessor bus, and the mass storage device, peripheral devices, portable storage medium drives, graphics subsystem may be connected via one or more input/output (I/O) busses. The mass storage device, which may be implemented
20 with a magnetic disk drive or an optical disk drive, is nonvolatile storage device for storing data and instructions for use by the processor unit. In the software embodiment, the mass storage device stores the software for loading to the main memory.

The input control device(s) provide a portion of the user interface for a user of the computer system. The input control devices may include an alpha numeric keypad for
25 inputting alphanumeric and other key information, a cursor control device, such as a mouse, a trackball, a stylus, or cursor direction keys. In order to display textual and graphical information, the computer system contains the graphics subsystem and the output display. The output display may include a cathode ray tube display or a liquid crystal display. The graphics subsystem receives textual and graphical information and
30 processes the information for output to the output display.

The components contained in the computer system are those typically found in general purpose computer systems, and in fact, these components are intended to represent a broad category of such computer components that are well known in the art.

The system may be implemented in either hardware or software. For the software
5 embodiment, the software that includes a plurality of computer executable instructions for implementation on a general purpose computer system. Prior to loading into a general purpose computer system, the system may reside as encoded information on a computer readable medium, such as a magnetic floppy disc, magnetic tape compact disc read only memory (CD-ROM). In one hardware embodiment, the system may comprise
10 a dedicated processor including processor instructions for performing the functions described herein. Circuits may also be developed to perform the functions described herein.

In one preferred embodiment of the present invention, issuing a search for the term MBNA, dispute, statement, bank, Citibank, american express, bankone, card
15 services, chase, checking, debit, deposit, firstusa, loan, payment, savings, or transaction will result in locating people and/or information related to financial accounts.

In another embodiment of the present invention, issuing a search for the term dispute, cover letter, resume, creditcard, mbna, or Citibank will result in locating people and/or information related to identify theft and credit card disputes.

20 In another embodiment of the present invention, issuing a search for the term stock, broker, Merrill, smith barney, ameritrade, datek, scottrade, charlesswab, dividend, jpmorgan, or tdwaterhouse will result in locating people and/or information related to investment accounts.

In another embodiment of the present invention, issuing a search for the term
25 chairman, board of directors, CFO, CEO, CTO, COO, CXO, or board meeting will result in locating people and/or information related to corporate executives or corporate operations.

In another embodiment of the present invention, issuing a search for the term budget or audit will result in locating people and/or information related to corporate
30 financials.

In another embodiment of the present invention, issuing a search for the term board meeting, chairman, confidential, contact list, client list, contract, agreement, FYI05, FYI04, FYI06, FYI07 (and so on), agmt, agreement, executive, or budget will result in locating people and/or information related to miscellaneous corporate
5 operations.

In another embodiment of the present invention, issuing a search for the term contact list, client list, forecast, NDA, SOW, proposal, RFQ, RFP, or RFI will result in locating people and/or information related to sales.

In another embodiment of the present invention, issuing a search for the term
10 Deposition, disclosure, NDA, mutual, or Confidentiality will result in locating people and/or information related to legal matters.

In another embodiment of the present invention, issuing a search for the term DSC will result in locating people and/or information related to pictures.

In another embodiment of the present invention, issuing a search for the term
15 SF85P or EPSQ will result in locating people and/or information related to security clearances.

In another embodiment of the present invention, issuing a search for the term response plan, emergency plan, preparedness, DHS, homeland security, coast guard, DHHS, smallpox, or emergency will result in locating people and/or information related
20 to homeland security.

In another embodiment of the present invention, issuing a search for the term USCG, DHS, Homeland Security, USSS, FBI, or CIA will result in locating people and/or information related to protection agencies or investigation units.

In another embodiment of the present invention, issuing a search for the term
25 r@ygold, boylover, childlover, pedo, pedofile, pedophile, Pedophilia, kiddy, Lolita, prelolitas, b@rebone, or ddoggprn will result in locating people and/or information related to child pornography.

In another embodiment of the present invention, issuing a search for the term Incident or investigation will result in locating people and/or information related to
30 investigations.

In another embodiment of the present invention, issuing a search for the term phrack, 2600, credit cards, hacker, hack, anarchist cookbook, or credit will result in locating people and/or information related to hackers.

5 In another embodiment of the present invention, issuing a search for the term aetc, afcc, afic, afic, afmc, afres, afspc, afsoc, afsc, apgc, hqc, pacaf, or usafe will result in locating people and/or information related to Air Force commands.

In another embodiment of the present invention, issuing a search for the term usareur, forscm, tradoc, usace, medcom, usarpac, smdc, usasoc, or mtmc will result in locating people and/or information related to Army commands.

10 In another embodiment of the present invention, issuing a search for the term SOP, OPOD or annex will result in locating people and/or information related to military cadets.

In another embodiment of the present invention, issuing a search for the term northcom, usnorthcom, uscentcom, centcom, useucom, eucom, uspacom, pacom, 15 ussouthcom, or southcom will result in locating people and/or information related to major military commands.

In another embodiment of the present invention, issuing a search for the term accenture, booz allen, Lockheed, Boeing, Raytheon, General Dynamics, Litton, GTE, Textron, Humana, DynCorp, Sverdrup, Halliburton, Aerospace, Unisys, Worldcorp, 20 Mitretek, Ssangyong, Teledyne, or Sabreliner will result in locating people and/or information related to military or government contractors.

In another embodiment of the present invention, issuing a search for the term CONOPS will result in locating people and/or information related to design concepts.

25 In another embodiment of the present invention, issuing a search for the term barracks, battalion, brigade, division, or regiment will result in locating people and/or information related to military units.

In another embodiment of the present invention, issuing a search for the term intsum, inscom, C4isr, c4i, c4isp, c4i-sp, c4i-sr, c4i-ta, c3i will result in locating people and/or information related to intelligence.

30 In another embodiment of the present invention, issuing a search for the term spawar, navsoc, cnrse, USFLTFORCOM, comUSFLTFORCOM, COMUSNAVEUR,

USNAVEUR, airlant, airpac, surflant, surfor, ussurfor, comnavsurflant, navsurflant, secondfleet, c3f, cusns, cmwc, COMINEWARCOM, MINEWARCOM, ewtgiant, or cffc will result in locating people and/or information related to Naval commands.

5 In another embodiment of the present invention, issuing a search for the term frago, bolo, sitrep, intsum, SPOD, RSOI, conop, warno, opord, fragord, warnord, oplan, or MDMP will result in locating people and/or information related to military operations.

In another embodiment of the present invention, issuing a search for the term that are numbers with a suffix of “th”, “rd”, and “nd” will result in locating people and/or information related to military units.

10 In another embodiment of the present invention, issuing a search for the term improvised, PETN, explosives, FM, cyanide, Islamic, jihad, Koran, mujahid, mujahideen, muslim, ricin, underground storage, advanced language patterns, dead sea scrolls, department homeland security, white power, nitrite, nitrate, military, sniper training, poison, silencer, or anarchists will result in locating people and/or information related to
15 terrorists.

In another embodiment of the present invention, issuing a search for the term Koran, Dead Sea Scrolls, Muslim, Islamic, or Islam will result in locating people and/or information related to muslim culture.

Examples

20 The following Example illustrates an embodiment of the system according to the present Invention.

Example 1: This example illustrates a system for locating information relating to military operations.

25 Military operation change orders are called frago's. In this example user #1 wishes to locate military personnel. User #1 connects to the Peer-to-Peer network and issues a search for the term “frago.” User #2 is in the military and has a file named “frago-opord1.doc.” User #2 responds to User #1 that he possesses a file that matches the term “frago” and makes the file available for User #1 to download. User #1 has located military information being shared by military personnel.

What is Claimed is:

1. A system for searching a Peer-to-Peer Network for at least one of specific types of people or specific types of information by using at least one specific search term known to result in locating said specific types of people or specific types of information, said system comprising:
 - a. a storage medium for storing instructions;
 - b. a user input device for receiving user input; and
 - c. a processor unit operable to process said user input and to use said instructions to execute a program to:
 - i. connect to said Peer-to-Peer network; and
 - ii. issue at least one specific search term known to locate said specific types of people or specific types of information.
2. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to financial accounts.
3. A system as set forth in claim 2 wherein said specific search term is at least one term selected from the group consisting of MBNA, dispute, statement, bank, Citibank, american express, bankone, card services, chase, checking, debit, deposit, firstusa, loan, payment, savings, and transaction.
4. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to identify theft and credit card disputes.
5. A system as set forth in claim 4 wherein said specific search term is at least one term selected from the group consisting of dispute, cover letter, resume, creditcard, mbna, and Citibank.
6. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to investment accounts.
7. A system as set forth in claim 6 wherein said specific search term is at least one term selected from the group consisting of stock, broker, Merrill, smith barney, ameritrade, datek, scottrade, charlesswab, dividend, jpmorgan, and tdwaterhouse.

8. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to corporate executives or corporate operations.
9. A system as set forth in claim 8 wherein said specific search term is at least one term selected from the group consisting of chairman, board of directors, CFO, CEO, CTO, COO, CXO, and board meeting.
10. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to corporate financials.
11. A system as set forth in claim 10 wherein said specific search term is at least one term selected from the group consisting of budget and audit.
12. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to miscellaneous corporate operations.
13. A system as set forth in claim 12 wherein said specific search term is at least one term selected from the group consisting of board meeting, chairman, confidential, contact list, client list, contract, agreement, FYI05, FYI04, FYI06, FYI07 (and son on), agmt, agreement, executive, and budget.
14. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to sales.
15. A system as set forth in claim 14 wherein said specific search term is at least one term selected from the group consisting of contact list, client list, forecast, NDA, SOW, proposal, RFQ, RFP, and RFI.
16. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to legal matters.
17. A system as set forth in claim 16 wherein said specific search term is at least one term selected from the group consisting of Deposition, disclosure, NDA, mutual, and Confidentiality.
18. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to pictures.
19. A system as set forth in claim 18 wherein said specific search term is DSC.
20. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to security clearances.

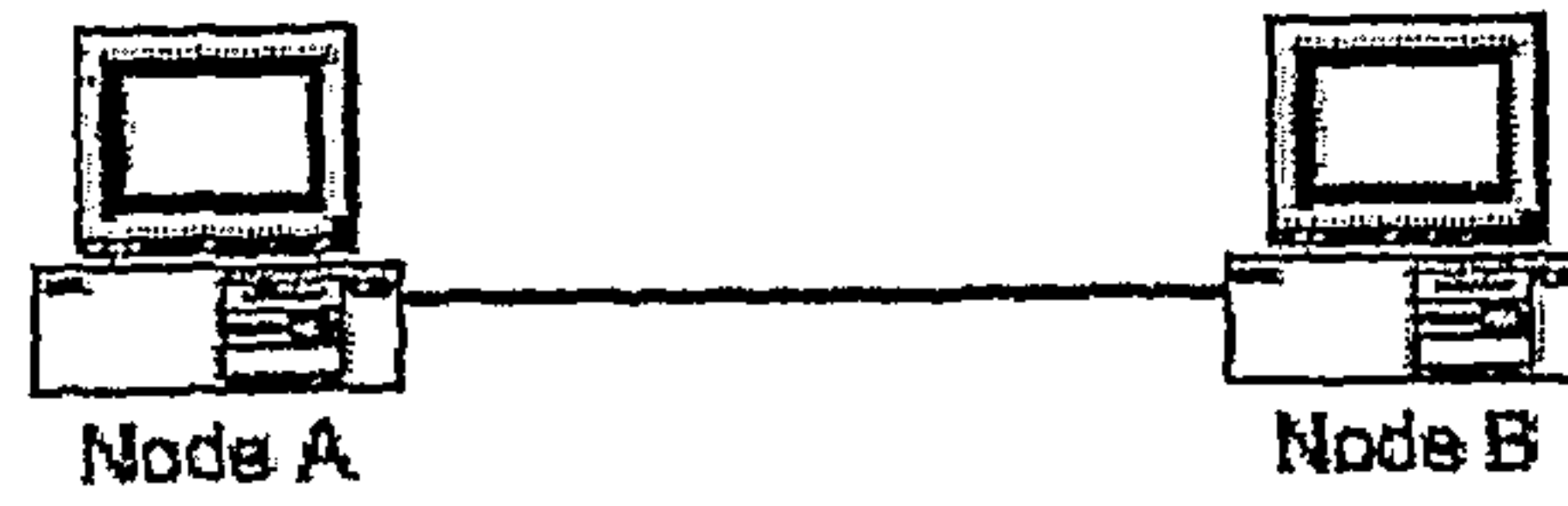
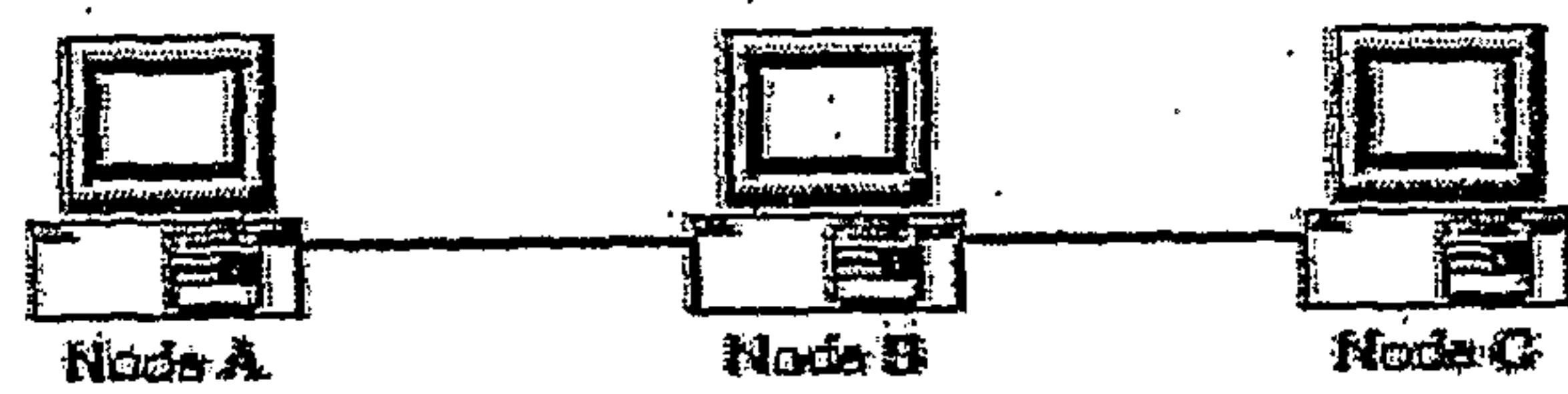
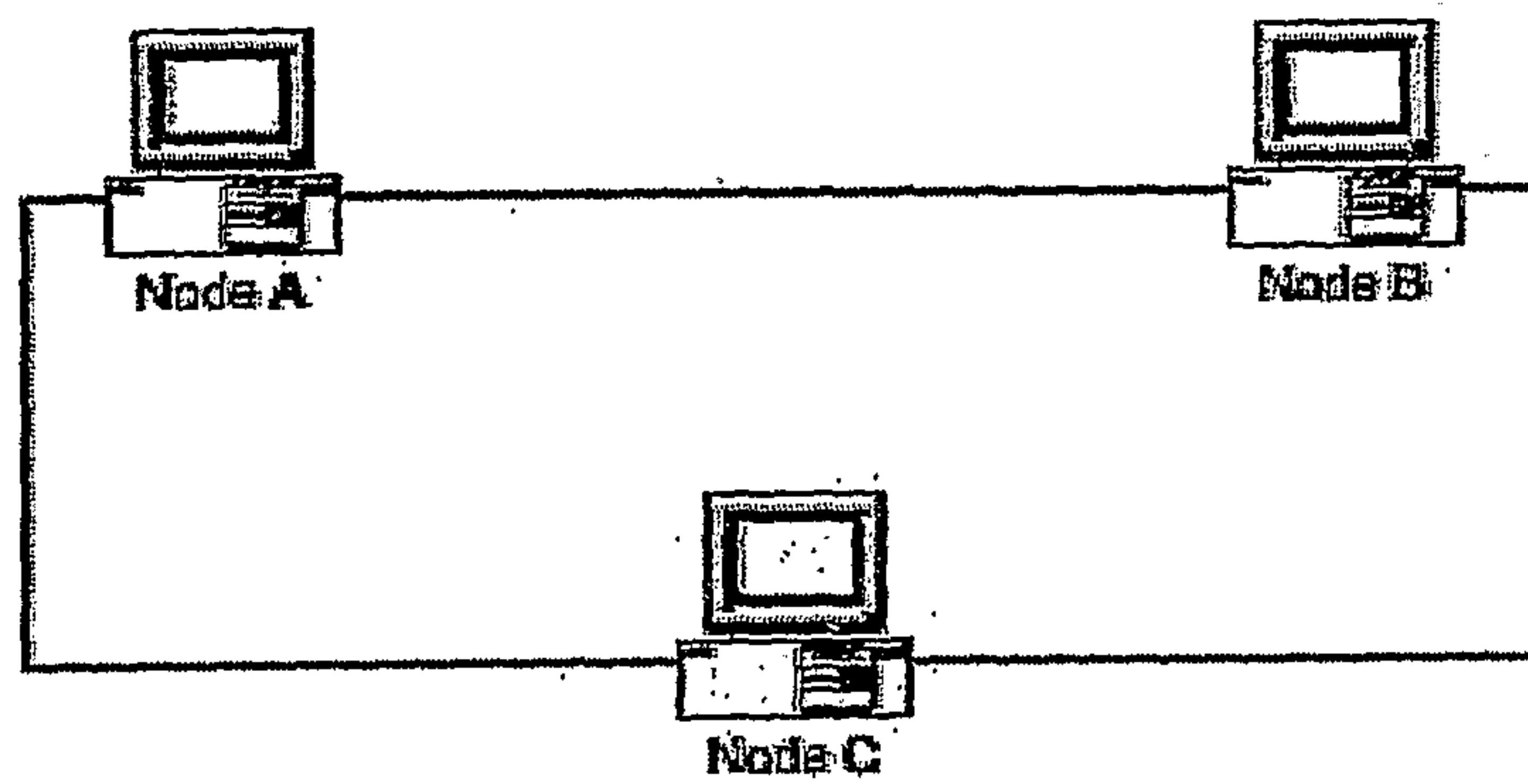
21. A system as set forth in claim 20 wherein said specific search term is at least one term selected from the group consisting of SF85P and EPSQ.
22. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to homeland security.
23. A system as set forth in claim 22 wherein said specific search term is at least one term selected from the group consisting of response plan, emergency plan, preparedness, DHS, homeland security, coast guard, DHHS, smallpox, and emergency.
24. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to protection or investigation agencies.
25. A system as set forth in claim 24 wherein said specific search term is at least one term selected from the group consisting of USCG, DHS, Homeland Security, USSS, FBI, and CIA.
26. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to child pornography.
27. A system as set forth in claim 26 wherein said specific search term is at least one term selected from the group consisting of r@ygold, boylover, childlover, pedo, pedofile, pedophile, Pedophilia, kiddy, Lolita, prelolitas, b@rebone, and ddoggprn.
28. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to investigations.
29. A system as set forth in claim 28 wherein said specific search term is at least one term selected from the group consisting of incident and investigation.
30. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to hackers.
31. A system as set forth in claim 28 wherein said specific search term is at least one term selected from the group consisting of phrack, 2600, credit cards, hacker, hack, anarchist cookbook, and credit.
32. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to Air Force Commands.

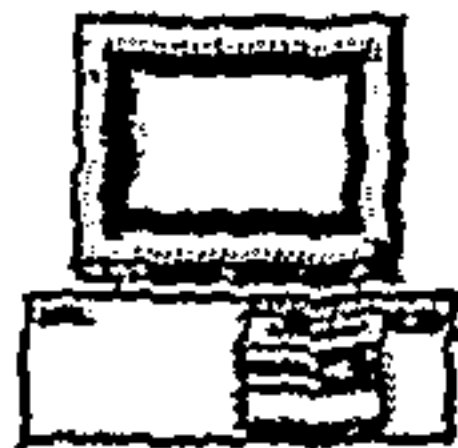
33. A system as set forth in claim 32 wherein said specific search term is at least one term selected from the group consisting of , aetc, afcc, afic, aflc, afmc, afres, afspc, afsoc, afsc, apgc, hqc, pacaf, and usafe.
34. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to Army Commands.
35. A system as set forth in claim 34 wherein said specific search term is at least one term selected from the group consisting of usareur, forscom, tradoc, usace, medcom, usarpac, smdc, usasoc, and mtmc.
36. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to military cadets.
37. A system as set forth in claim 36 wherein said specific search term is at least one term selected from the group consisting of SOP, OPOD and annex.
38. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to major military commands.
39. A system as set forth in claim 38 wherein said specific search term is at least one term selected from the group consisting of northcom, usnorthcom, uscentcom, centcom, useucom, eucom, uspacom, pacom, ussouthcom, and southcom.
40. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to military or government contractors.
41. A system as set forth in claim 40 wherein said specific search term is at least one term selected from the group consisting of accenture, booz allen, Lockheed, Boeing, Raytheon, General Dynamics, Litton, GTE, Textron, Humana, DynCorp, Sverdrup, Halliburton, Aerospace, Unisys, Worldcorp, Mitretek, Ssangyong, Teledyne, and Sabreliner.
42. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to design concepts.
43. A system as set forth in claim 42 wherein said specific search term is CONOPS.
44. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to military units.

45. A system as set forth in claim 44 wherein said specific search term is at least one term selected from the group consisting of barracks, battalion, brigade, division, and regiment.
46. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to intelligence.
47. A system as set forth in claim 46 wherein said specific search term is at least one term selected from the group consisting of intsum, inscom, C4isr, c4i, c4isp, c4i-sp, c4i-sr, c4i-ta, and c3i.
48. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to Naval Commands.
49. A system as set forth in claim 48 wherein said specific search term is at least one term selected from the group consisting of spawar, navsoc, cnrse, USFLTFORCOM, comUSFLTFORCOM, COMUSNAVEUR, USNAVEUR, airlant, airpac, surflant, surfor, ussurfor, comnavsurflant, navsurflant, secondfleet, c3f, cusns, cmwc, COMINEWARCOM, MINEWARCOM, ewtgiant, and cffc.
50. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to military operations.
51. A system as set forth in claim 50 wherein said specific search term is at least one term selected from the group consisting of frago, bolo, sitrep, intsum, SPOD, RSOI, conop, warno, opord, fragord, warnord, oplan, and MDMP.
52. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to military units.
53. A system as set forth in claim 52 wherein said specific search term is at least one term selected from the group consisting of numbers with a suffix of "th", "rd", and "nd."
54. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to terrorists.
55. A system as set forth in claim 54 wherein said specific search term is at least one term selected from the group consisting of improvised, PETN, explosives, FM, cyanide, Islamic, jihad, Koran, mujahid, mujahideen, muslim, ricin, underground storage, advanced language patterns, dead sea scrolls, department homeland

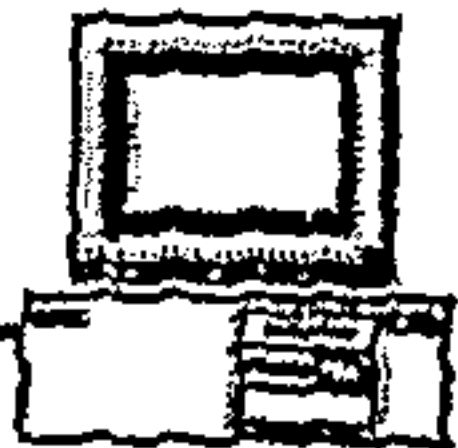
security, white power, nitrite, nitrate, military, sniper training, poison, silencer, and anarchists.

56. A system as set forth in claim 1 wherein said specific types of people or said specific types of information are related to muslim culture.
57. A system as set forth in claim 56 wherein said specific search term is at least one term selected from the group consisting of Koran, Dead Sea Scrolls, Muslim, Islamic, and Islam.
58. A method for searching a Peer-to-Peer Network for at least one of specific types of people or specific types of information by using at least one specific search term known to result in locating said specific types of people or specific types of information, said method comprising the steps of:
 - a. connecting to said Peer-to-Peer network; and
 - b. issuing at least one specific search term known to locate said specific types of people or specific types of information.

**Fig 1****Fig 2****Fig 3**



Mode A



Mode B