EXHIBIT D





(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2005/0021750 A1 **Abrams**

Jan. 27, 2005 (43) **Pub. Date:**

(54) SYSTEM, METHOD AND APPARATUS FOR CONNECTING USERS IN AN ONLINE COMPUTER SYSTEM BASED ON THEIR RELATIONSHIPS WITHIN SOCIAL **NETWORKS**

(75) Inventor: Jonathan H. Abrams, Sunnyvale, CA

Correspondence Address: Jonathan H. Abrams Suite 112-280 415 N. Mary Avenue Sunnyvale, CA 94085 (US)

Assignee: FRIENDSTER INC., a California Cor-

Appl. No.: 10/462,142

(22) Filed: Jun. 16, 2003

Publication Classification

ABSTRACT (57)

A method and apparatus for calculating, displaying and acting upon relationships in a social network is described. A computer system collects descriptive data about various individuals and allows those individuals to indicate other individuals with whom they have a personal relationship. The descriptive data and the relationship data are integrated and processed to reveal the series of social relationships connecting any two individuals within a social network. The pathways connecting any two individuals can be displayed. Further, the social network itself can be displayed to any number of degrees of separation. A user of the system can determine the optimal relationship path (i.e., contact pathway) to reach desired individuals. A communications tool allows individuals in the system to be introduced (or introduce themselves) and initiate direct communication.

Path Calculation Process Flowchart

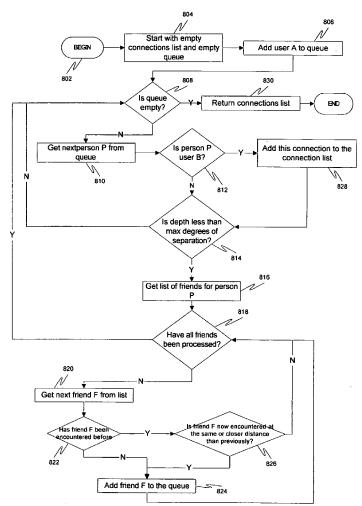
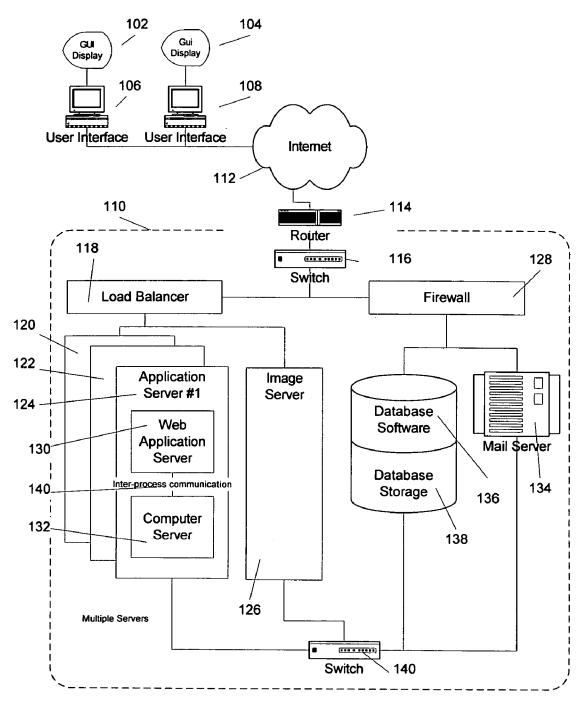




FIG. 1 System Diagram



Database 200 users profiles photos integer 208 integer id integer 202 210 user firstname text interests integer lastname text favoritemusic fileid text integer email favaoritebooks text text moderation integer verify integer favoritetv text password text favoritemovies text friends gender m/f aboutme text 216 orientation integer wanttommet text user2 integer integer relationship ethnicity y/n dating y/n integer friendrequests friends eyes integer y/n originator intege 218 activity height respondent y/n integer integer status integer body integer dob date education integer invites country text income integer integer zipcdoe text religion integer key integer 220 postalcode text politics integer sender integer state text smoking integer email text province text drinking date integer date city kids clicked text integer y/n occupation text joined y/n location text integer joineduse hometown text searchparam photo integer bookmarks user integer 214 membersince date owner integer photosonly y/n 222 user lastlogin date integer iustphotos y/n lastupdate date visible y/n male y/n recruiter integer female y/n friendcount integer men y/n testimonials integer women y/n bulletinboard weekuypdates y/n helptohelp y/n integer notifications y/n 226 integer friends sender y/n photomode integer dating y/n date date integer type y/n subject serious text activity body text <u>locations</u> minage integer 204 zipcode integer integer maxage city text distance integer state text single y/n relationship y/n zipcodes mamied y/n zipcode 206 text openmarriage y/n latitude integer longitude integer <u>testimonials</u> 212 id integer messages user integer integer sender integer integer user approved y/n sender integer 224 date date new y/n body text folder text date date subject text body text

FIG. 2



FIG. 3a Data Collection Interface

Email Add	ress:		7 302	
Repeat Email Address:				
First Name:			306	
Last Name	e:			
Password	:		_]	
Repeat Pa	ssword:] /	User Interface
Gender:		C Male C Female		
Interested in Meeting People for:				
▼ Dating		C Men C Women		
▼ Serious I	Relationship	C Men and Women	1/	
Activity Partners				
Just Here to Help				
Friend's em		Friendster? ur friend and your friend's frie	nds.)	304 /
Status: Status: Status: Single/Divorce In a Relation Married Open Marriag		ship		
Date of Birth:	E IE	<u>_</u>		
Country:		<u> </u>		
Zip/Postal Code:	(U.S. & Canada Only)			
Hometown:	. (Where you grew up)		ıp)	
Occupation:				
Interests: (Separate Interests		is with Commas)		

DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

