

17157 U.S. PTO
031204

PTO/SB/16 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

Express Mail Label No. EV 348160747 US

INVENTOR(S)					
Given Name (first and middle [if any])		Family Name or Surname		Residence (City and either State or Foreign Country)	
Yu		Fang		Burnaby, B.C., Canada	
Michael		Xie		Palo Alto, California	
☐ Additional inventors are being named on the _____ separately numbered sheets attached hereto					
TITLE OF THE INVENTION (500 characters max)					
METHOD, SYSTEM, AND COMPUTER PROGRAMS TO ALLOW LARGE SCALE, SIMULTANEOUS UPDATE OF COMPUTER SOFTWARE THROUGH NETWORK					
Direct all correspondence to:			CORRESPONDENCE ADDRESS		
☒ Customer Number			23,639		
OR					
☐ Firm or Individual Name		Bingham McCutchen LLP			
Address		Three Embarcadero Center			
Address		Suite 1800			
City		San Francisco	State	CA	ZIP 94111-4067
Country		CA	Telephone		Fax
ENCLOSED APPLICATION PARTS (check all that apply)					
☒ Specification Number of Pages		3		☐ CD(s), Number _____	
☐ Drawing(s) Number of Sheets		_____		☐ Other (specify) _____	
☐ Application Data Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT					
☒ Applicant claims small entity status. See 37 CFR 1.27.					
☐ A check or money order is enclosed to cover the filing fees					
☒ The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 50-2518					
☐ Payment by credit card. Form PTO-2038 is attached.					
FILING FEE AMOUNT (\$)					
80.00					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
☒ No.					
☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____					

Respectfully submitted,
SIGNATURE

Gerald Chan

Date

03/12/04

TYPED or PRINTED NAME

Gerald Chan

REGISTRATION NO.
(if appropriate)

51,541

Docket Number:

FOR-003 US

TELEPHONE

(408) 849-4824

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

15535 U.S. PTO
60/552457

031204

FEE TRANSMITTAL for FY 2004 Effective 10/01/2003. Patent fees are subject to annual revision.		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">Not-Yet-Assigned</td> </tr> <tr> <td>Filing Date</td> <td>March 12, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Yu Fang</td> </tr> <tr> <td>Examiner Name</td> <td>Not-Yet-Assigned</td> </tr> <tr> <td>Art Unit</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Attorney Docket No.</td> <td>FOR-003 us (7038461001)</td> </tr> </table>		Application Number	Not-Yet-Assigned	Filing Date	March 12, 2004	First Named Inventor	Yu Fang	Examiner Name	Not-Yet-Assigned	Art Unit	Not Yet Assigned	Attorney Docket No.	FOR-003 us (7038461001)
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TOTAL AMOUNT OF PAYMENT	(\$)	\$80.0													

METHOD OF PAYMENT (check all that apply) ☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order ☒ Deposit Account: Deposit Account Number: 50-2518 Deposit Account Name: Bingham McCutchen LLP The Director is authorized to: (check all that apply) ☒ Charge fee(s) indicated below ☒ Credit any overpayments ☐ Charge any additional fee(s) during the pendency of this application ☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. FEE CALCULATION 1. BASIC FILING FEE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td></td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td>\$80</td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (1)</td> <td>(\$) \$80.00</td> </tr> </tbody> </table> 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE <table style="width: 100%;"> <tr> <td>Total Claims</td> <td></td> <td>-20 **</td> <td>=</td> <td>0</td> <td>X</td> <td>Fee from below</td> <td>=</td> <td>0</td> </tr> <tr> <td>Independent Claims</td> <td></td> <td>-3 **</td> <td>=</td> <td>0</td> <td>X</td> <td></td> <td>=</td> <td>0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td>=</td> <td>0</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (2)</td> <td>(\$) 0</td> </tr> </tbody> </table> **or number previously paid, if greater; For Reissues, see above	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1001	770	2001	385	Utility filing fee		1002	340	2002	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	160	2005	80	Provisional filing fee	\$80	SUBTOTAL (1)					(\$) \$80.00	Total Claims		-20 **	=	0	X	Fee from below	=	0	Independent Claims		-3 **	=	0	X		=	0	Multiple Dependent					X		=	0	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1202	18	2202	9	Claims in excess of 20		1201	86	2201	43	Independent claims in excess of 3		1203	290	2203	145	Multiple dependent claim, if not paid		1204	86	2204	43	** Reissue independent claims over original patent		1205	18	2205	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$) 0	3. 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late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1251	110	2251	55	Extension for reply within first month		1252	420	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,480	2254	740	Extension for reply within fourth month		1255	2,010	2255	1,005	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,330	2453	665	Petition to revive - unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	480	2502	240	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))		1801	770	2801	385	Request for Continued Examination (RCE)		1802	900	1802	900	Request for expedited examination of a design application	
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SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Gerald Chan	Registration No. (Attorney/Agent)	51,541
Signature		Telephone	(650) 849-4824
		Date	March 12, 2004

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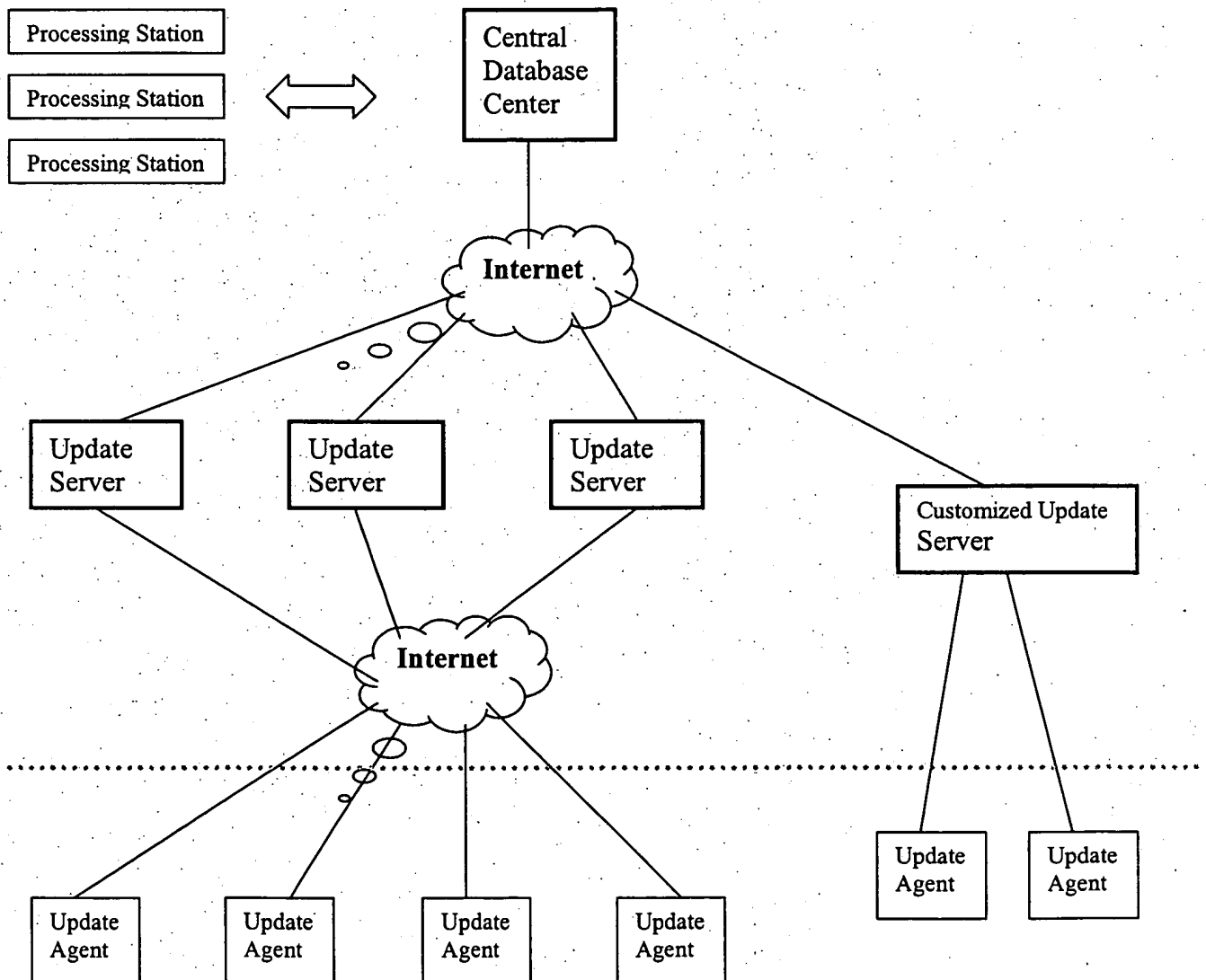
Fortinet Security Update Technology

1. Background

Network security covers the following areas such firewall, antivirus, NIDS, web filtering, etc. More and more security features depend on the on-time update. Fortinet builds up a complete new system to make real-time update as fast as possible, and at the same time there is almost no need of administration from customers.

2. Overview

Typical update data includes antivirus signature, spammer list for anti-spam feature, network intrusion detection definition, web filtering URL database. The whole system has these major components: one Central Database Centre, multiple real-time processing stations, multiple Update Servers and lots of Update Agents.



Processing Station: Update data such as virus signature will be stored here after processing, and ready to upload onto Central Database Centre.

Central Database Centre: Update data and subscriber information are maintained here and are periodically sent to geographically located update servers. Update servers will also forward subscriber-specific data to the Central Database Centre.

Update Server: They are geographically located around the world and responsible for delivering update data to update agents. An Update Server must handle requests from Update Agents and also collect Update Agents' information and forward them to the Central Database Centre.

Update Agent: An Update Agent is a software component running in a dedicated security device such as a firewall, or running in a generic PC at a customer site. Its main role is to inspect the traffic passing through it to ensure they are safe based on the latest update it gets from an Update Server.

3. Detailed Description

3.1 Type of Update Data

There are two kinds of update data: security update data and subscriber data. Security update data refers to the data such as virus definitions, NIDS signature, etc. They will be used by an Update Agent to check its pass-through traffic to ensure its protected network or host to be compromised by unsafe content. The subscriber data is important to the whole update system to guarantees all licensed Update Agents to have access to the latest security update data.

3.2 Update Method

Some security update data such as virus definitions are very time-sensitive, and we want to send them to all Update Agents as soon as they are available. So unlike typical update method, in which case an Update Agent will have to regularly "poll" an Update Server to check if there is a new update, our Update Servers can "pushed" the latest security update data within minutes after they are made available to all Update agent that are configured to enable push. This method has the advantage of faster response time during a outbreak and less resource consumption on the Update Agents.

3.3 Customized Update Service (Update Service to Private Network)

Some organizations have some special policies that restrict their network device's network access to the Internet. For example, their network connection from Intranet to Internet is only limited to a certain host/hosts. In this case it is impossible for their Update Agents inside the Intranet to access our public available Update Servers. The solution is to deploy a Customized Update Server just outside its Intranet. The customer can configure its own Customized Update Server to serve the its own Update Agents. The

regular Update Agents will not know this Update Server. The choice for an Update Agent to use either a Customized Update Server or a regular Update Server is configurable on the Customized Update Server.

3.4 Communication Channel

The network communication channel between the Central Database Centre and the Update Servers is encrypted; while the channel between Update Servers and Update Agents could be encrypted or unencrypted, depending on the types of update data.

3.5 Load Balance and Scalability

The Central Database Centre maintains a list of all deployed Update Servers and distributes the list to all Update Agents, and constantly monitors the health and load of each Update Server. An Update Server can be added, removed from the whole system at run-time without causing service interruption. If the whole system or the Update Servers for a certain geographical areas cannot keep up with the ever-increasing load, more Update Servers can be deployed.

Each Update Server is intentionally deployed to server the Update Agents in the same geographically area. If it is not available or fail to work properly, a geographically nearby Update Server or any other Update Servers will provide the service.

For customized update service, a customer can have more than one Customized Update Server and these Customized Update Servers can back up each other and distribute their load.

3.6 Low Management Cost for Customers

With this new system, the responsibility to keep up with the latest security update is shifted from our customers to Fortinet, which ensures to make updates available with the shortest response time, and at the same time ensure to distribute them to its customers in real-time.

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