

# Digital Forensics Project

Done By:
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**Background Introduction** 

 Aaron Greene found Kitty exploitation movies and pictures on computer (MT-2009-12-015-EV001) purchased from Craigslist.

- Computer belongs Johnson Smith from M57
  Patents.
- Police spoke to CEO Pat McGoo before confiscating Jo USB thumb drive which used for transferring kitty exploitation material.

#### **Employees of interest:**

o CEO: Pat McGoo

o IT Administrator: Terry

o Patent Researchers: Jo, Charlie



# Our Task

Analyze criminal charges and civil litigation on kitty exploitation videos

Investigate other suspicious activities based on image provided



### **Timeline**

09-11-2009

Joined the company



16-11-2009

First day in Company

17-11-2009



Jo's computer slow down

18-11-2009

11-12-2009

Jean buy both listed items. While Cod asked Terry join for poker. Pat is also suspi



12-12-2009

Pat called for urgent meeting after police called 21-11-2009

Terry swap out Jo's computer. Alos put PDF in Pat computer.



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24-11-2009

Terry told Charlie suit case bought from poker money. Also created Craiglist account

4-12-2009

Pat computer slow down and Terry fix it.



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30-11-2009

Aaron purchase computer for \$1000

10-12-2009

Terry post Dell monitor and HP printer on craigslist over the course of 2 days

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01 Intro

Background, Task, Timeline **)2** Jo

Kitty Exploitation!

03 Pat

Victim of eavesdropping

04 Charlie

- Corporate espionage
- Extortion

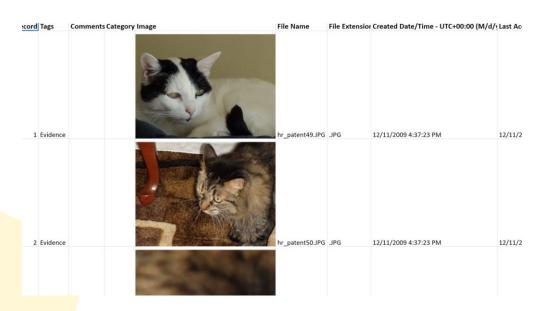
Terry

- Receipt forgery
- Eavesdropping on Pat

06 Conclusion

### **Kitty Exploitation Found**

- Jo's Computer
  - Kitty exploitation pictures and movies found
  - Pictures created on 12/11/2009 at 4:37:23 PM
  - Videos created on 12/11/2009 4:37:28 PM



From 11/20

### **Kitty Exploitation Found**

- Jo's Work USB:
  - Encrypted Images and videos found

Tags	Comments Image		File Name	File Extension	Created Date/Time - UTC+00:00 (M/d/	Last Accessed Date/Time - UTC+0
	[Error f	Rendering Image]	σSC00009.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00010.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00012.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00011.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00015.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00017.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00016.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00014.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00020.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00018.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00019.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00021.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error f	Rendering Image]	σSC00025.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00022.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error F	Rendering Image]	σSC00024.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error l	Rendering Image]	σSC00023.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM
	[Error l	Rendering Image]	σSC00013.JPG	.JPG	11/20/2009 1:36:24 PM	11/19/2009 4:00:00 PM

### **Kitty Exploitation Found**

- Jo's Favourites USB:
  - First appearance of Kitty exploitations found on the Favourites USB
  - o 11/17/2009 8:35:13 PM



#### From 11/17

### Kitty Exploitation Found

- Jo's Favourites USB:
  - Matching hashes for files on Favorites USB and Jo's Computer

File Name	hr_patent69.JPG
File Extension	JPG
Created Date/Time	11/12/09 08:37:25 AM
Last Accessed Date/Time	11/12/09 08:37:25 AM
Last Modified Date/Time	08/11/09 11:28:28 AM
Size (Bytes)	622799
Skin Tone Percentage	81.1
Original Width	2304
Original Height	1296
Exif Extraction Status	Complete
Created Date/Time - Local Time	08/11/09 11:28:29 AM (Local time)
Modified Date/Time - Local Time	08/11/09 11:28:29 AM (Local time)
Make	SONY
Model	HDR-SR10
Exif Data	Extraction Result: Complete ImageWidth: 2304 ImageHeight: 1296 DateTimeOriginal: 11/08/2009 11:28:29 CreateDate: 11/08/2009 11:28:29 ModifyDate: 11/08/2009 11:28:29 Make: SONY Mode!: HDR-SR10
MD5 Hash	34a248ffbc03c1b96e2225b788f71fd6
SHA1 Hash	7276959a00da00c00022c2bf869a710cb6eb2cc2

#### ARTIFACT INFORMATION

File Name DSC00071.JPG

File Extension JPG

Created Date/Time 17/11/09 12:36:15 PM

Last Accessed Date/Time 23/11/09 08:00:00 AM
Last Modified Date/Time 07/11/09 07:28:28 PM

Size (Bytes) 622799
Skin Tone Percentage 81.1
Original Width 2304
Original Height 1296
Exif Extraction Status Complete

Created Date/Time - Local Time 08/11/09 11:28:29 AM (Local time)
Modified Date/Time - Local Time 08/11/09 11:28:29 AM (Local time)

Make SONY
Model HDR-SR10

Exif Data Extraction Result: Complete ImageWidth: 2304 ImageHeight: 1296

> DateTimeOriginal: 11/08/2009 11:28:29 CreateDate: 11/08/2009 11:28:29 ModifyDate: 11/08/2009 11:28:29

Make: SONY Model: HDR-SR10

MD5 Hash **34a248ffbc03c1b96e2225b788f71fd6**SHA1 Hash **7276959a00da00c00022c2bf869a710cb6eb2cc2** 

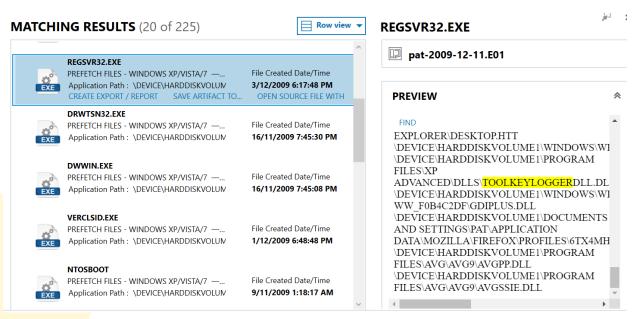
Artifact tuna 🖼 Dictura



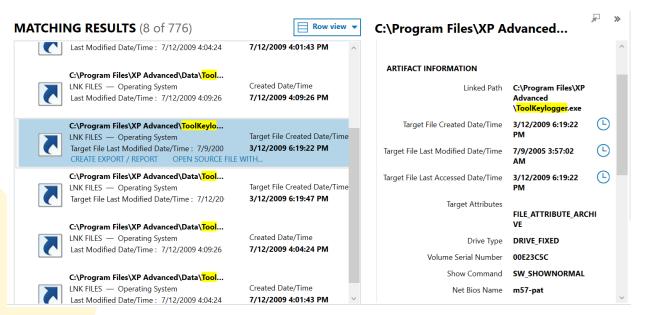
03

Pat

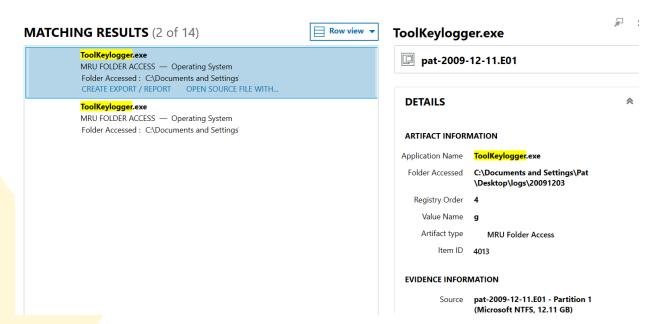
- XP Advanced Keylogger appears:
  - XP Advanced/DLLs/ToolKeyloggerDLL.dll
  - XP Advanced/SkinMagic.dll
  - XP Advanced/ToolKeylogger.exe



- XP Advanced Keylogger appears:
  - XP Advanced/DLLs/ToolKeyloggerDLL.dll
  - XP Advanced/SkinMagic.dll
  - XP Advanced/ToolKeylogger.exe



- XP Advanced Keylogger appears:
  - XP Advanced/DLLs/ToolKeyloggerDLL.dll
  - XP Advanced/SkinMagic.dll
  - XP Advanced/ToolKeylogger.exe



### **Keylogger Found!**

File format for logs matches the files found on Terry's computer

Path	 Path	Acce
::\Program Files\XP Advanced\Data\ToolKeylogger\Log\2009-12-04_000255a7_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_0002e11e_big.jpg	Drive	
:\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_0004b041_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_000c2688_big.jpg	Drive	
:\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04.htm	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_0002e11e_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_0004b041_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_00015be5_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_0004b041_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_000c2688_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-04_0002dbee_big.jpg	Drive	
::\Program Files\XP Advanced\Data\Tool <mark>Keylogger</mark> \Log\2009-12-03.htm	Drive	
::\Program Files\XP Advanced\Data\ToolKeylogger\Log\2009-12-04_000c2688_big.jpg	Drive	



- File format for logs matches the files found on Terry's computer
- Files were deleted, but we managed to locate them in \$OrphanedFiles

Eg AL	ALL EVIDENCE   pat-2009-12-11.E01   Partition 1 (Microsoft NTFS, 12.11 GB)   [Solution of the content of the co						
:	Name - :	Type :	File e	Size	Created	Accessed	Modified :
	o 2009-12-03_00036d9f_small.jpg	File	.jpg	4,369	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:11:08
	2009-12-03_0005425f_small.jpg	File	.jpg	4,369	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:13:08
	2009-12-03_0007171f_small.jpg	File	.jpg	4,369	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:15:08
	2009-12-03_0008ebdf_small.jpg	File	.jpg	4,369	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:17:08
	2009-12-03_000ac09f_small.jpg	File	.jpg	4,369	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:19:08
	2009-12-03_000c955f_small.jpg	File	.jpg	1,186	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:21:08
	2009-12-03_000e6a1f_small.jpg	File	.jpg	1,165	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:23:08
	2009-12-03_00103edf_small.jpg	File	.jpg	1,178	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:25:08
	2009-12-03_0012139f_small.jpg	File	.jpg	1,207	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:27:08
	2009-12-03_0013e85f_small.jpg	File	.jpg	1,157	07/12/2009 08:03:23	07/12/2009 08:03:23	03/12/2009 19:29:08

From 07/12

#### RealVNC's VNC4

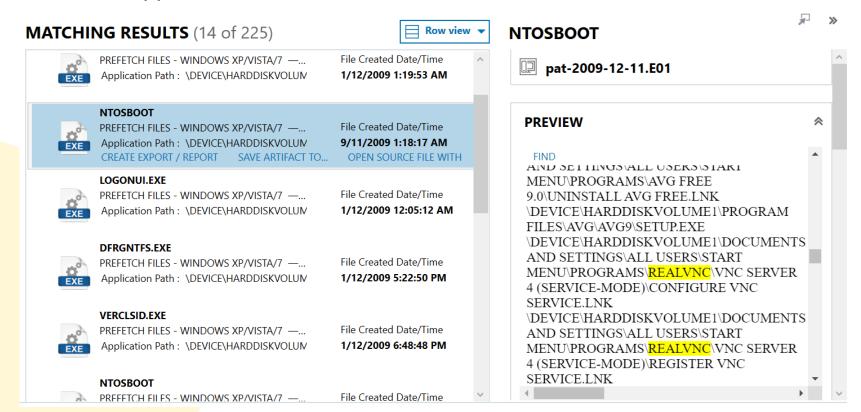
RealVNC is a company that provides remote access software.

The software consists of a server and client application for the Virtual Network Computing protocol to control another computer's screen remotely.



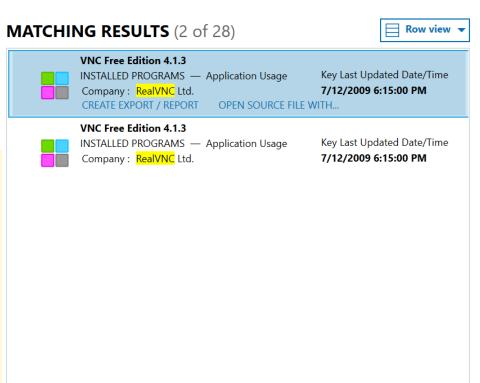
From 07/12

• First appearance: 9/11/2009

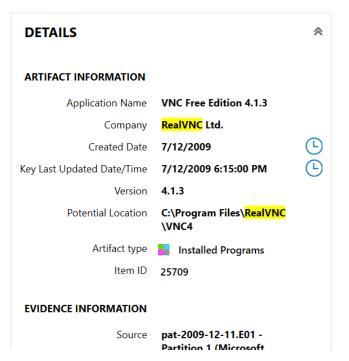


From 07/12

• VNC Free Edition 4.1.3 installed on 7/12/2009

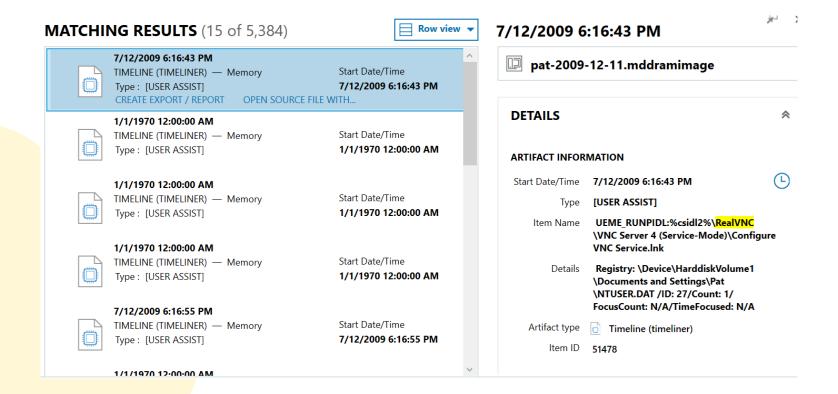


#### **VNC Free Edition 4.1.3**



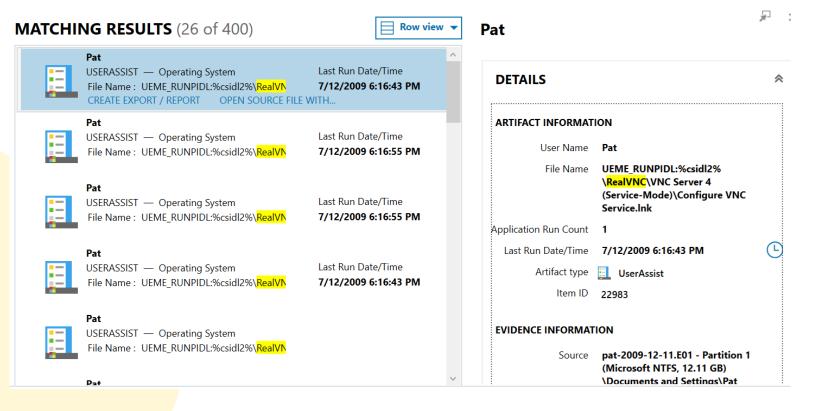
From 07/12

VNC Free Edition 4.1.3 installed on 7/12/2009



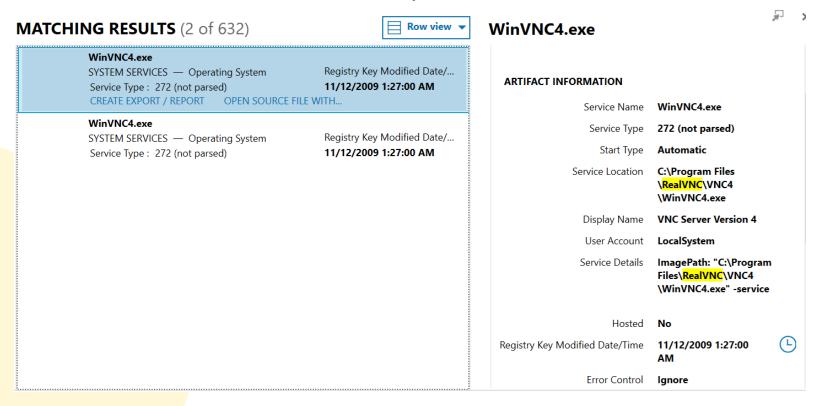
From 07/12

VNC Free Edition 4.1.3 ran on 7/12/2009



From 11/12

Persistence via inclusion as startup service





04 Charlie

### Case 1: Corporate Espionage Involving Charlie & Jamie

#### **17 November 2009**

Charlie is informed of Nitroba's interest in engaging M57.biz for their services and confidentiality concerns with project2400 through a forwarded enail from Pat

#### **03 December 2009**

Jamie replied with her offer of "50 large" should the "goods" be good with "10" paid upfront

#### **04 December 2009**

Charlie responded to Jamie with the password "nitro" for the "steg program" that they discussed earlier

#### **02 December 2009**

Charlie initiated an email conversation with Jamie from project2400 for sale of something on interest to project2400

#### **03 December 2009**

Charlie sent Jamie a followup email with the "astronaut1.jpg" attachment with instructions to decrypt the file on receipt of another deposit

## Invisible Secret Program





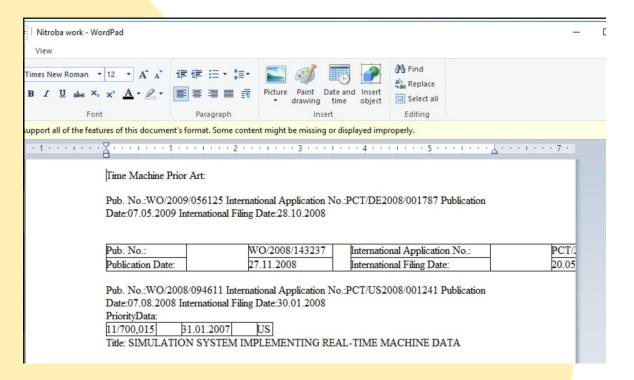


Loading astronaut1.jpg into InvisibleSecrets

Entering decryption password as "nitro" and decrypting algorithm as "Blowfish"

Unhide the file Nitroba work.odt

# Decrypted file



File "Nitroba work.odt" sent out by Charlie to Jamie

### Case 2: Extortion Involving Charlie & Andy



#### **04 December 2009**

Charlie's emailed Andy from swexpert to demand 100k for not disclosing information (attachment: 01.zip) that will invalidate their current patent publicly



#### **07 December 2009**

Charlie attached 'microscope1.jpg' in the email to Andy which contains the password for the zip file (01.zip)





### Decrypting 01.zip

Analyzing microscope 1.jpg using HxD, password is uncovered to be "immortal"

```
microscope1.jpg
            02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
                                             Decoded text
                                             ÿØÿà..JFIF.....
00000000
                                             ....ÿÛ.C.....
00000010
00000020
       00000040
00000050
        01 01 01 01 01 01 01 01 01 FF DB 00 43 01 01 01
00000060
00000070
              01 01 01 01 01 01 01 01 01 01 01 01 01
                     72 64 3D 69 6D 6D 6F
08000000
00000090
000000A0
000000B0
```



### Files used to extort Andy

#### United States Patent [19] Soule et al.

5,026,637

Jun. 25, 1991

#### IMMORTAL HUMAN MAMMARY EPITHELIAL CELL LINES

[76] Inventors: Herbert Soule, 6344 Jonathan, Dearborn, Mich. 48126; Charles M. McGrath, 6669 Beach, Trov. Mich.

[21] Appl. No.: 317,610 Filed:

[56]

Feb. 28, 1989 (Under 37 CFR 1.47)

Int. Cl.5 ...... C12O 1/02; C12O 1/18; C12N 5/06 435/29; 435/32; U.S. Cl. .... 435/172.1: 435/240.1: 435/240.2: 436/63:

[58] Field of Search .. .. 435/29, 23, 7, 320, 435/6, 252.8, 219, 32, 172.1, 240.1, 240.2; 436/63, 813; 536/27; 935/9; 424/85.2, 85.1, 85.8, 85.91, 1.1; 514/317, 428, 648; 530/14, 395,

#### References Cited PUBLICATIONS

Jones et al., Breast Cancer Research Group and Pathology Dept., Michigan Cancer Foundation, Detroit, Mich. 48201. Proceedings of AACR, vol. 29, (Mar. 1988).

In Vitro, vol. 20, No. 8, Aug. 1984, "Calcium Regulation of Normal Human Mammary Epithelial Cell Growth in Culture", Charles M. McGrath and Herbert D. Soule, pp. 653–662.

Patent Number:

Date of Patent:

In Vitro Cellular & Developmental Biology, vol. 33, No. 1, Jan. 1986, "A Simplified Method for Passage and Long-Term Growth of Human Mammary Epithelial Cells". Herbert D. Soule and Charles M. McGrath, pp.

Proceedings of AACR, vol. 29, Mar. 1988, #1780, p.

Primary Examiner-Esther L. Kepplinger Assistant Examiner-Toni R. Scheiner Attorney, Agent, or Firm-Robert L. Kelly; Dykema Gossett

#### [57] ABSTRACT

Immortalized human epithelial cell sublines are provided. The novel cell lines do not undergo terminal differentiation and senescence upon exposure to high calcium concentrations. The novel cells exhibit positive reactivity with milk-fat globule membrane antigen and cytokeratin anti-serum. The cells are non-tumorigenic in athymic mice, and exhibit both three-dimensional growth in collagen and dome formation in confluent cultures. The cell sublines demonstrate growth control by hormones and growth factors. The novel cell sublines are useful in evaluating the capacity of preselected agents to bring about a change in epithelial cell growth and in the production of proteins.

3 Claims, 3 Drawing Sheets



(12) United States Patent Topalian et al.

(10) Patent No.: US 6.982,168 B1 (45) Date of Patent: Jan. 3, 2006

(54) IMMORTAL HUMAN PROSTATE EPITHELIAL CELL LINES AND CLONES AND THEIR APPLICATIONS IN THE RESEARCH AND THERAPY OF PROSTATE

(75) Inventors: Suzanne L. Topalian, Brookeville, MD (US); W. Marston Linehan, Rockville, MD (US); Robert K. Bright, Portland, OR (US); Cathy D. Vocke, Germantown, MD (US)

(73) Assignce: The United States of America as represented by the Department of Health and Human Services, Washington, DC (US)

(\*) Notice: Subject to any disclaimer, the term of this natent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 08/913,770

(22) PCT Filed: Jan. 30, 1997 (86) PCT No.: PCT/US97/01430 \$ 371 (c)(1).

(2), (4) Date: Sep. 22, 1997 (87) PCT Pub. No.: WO97/28255 PCT Pub. Date: Aug. 7, 1997

Related U.S. Application Data

(60) Provisional application No. 60/011,042, filed on Feb. 2,

(2006.01)

(52) U.S. Cl. . 435/325: 435/366: 435/371: 435/384; 435/385; 435/386

(58) Field of Classification Search . 424/277.1. 93.7: 435/7.23. 325. 366. 378 See application file for complete search history.

References Cited U.S. PATENT DOCUMENTS

5.026.637	Α	6/1991	Soule et al 435/29
5,376,542	Α	12/1994	Schlegal 435/172.2
5,436,152	Α	7/1995	Soule et al 435/240.2
5,443,954	Α	8/1995	Reddel et al 435/7.21
5,462,870			Chopra 435/240.2
5,576,206	Α	11/1996	Schlegel 435/240.2
5,716,830	Α	2/1998	Webber et al 435/6
5 824 488	Α.	* 10/1998	Walshar at al 435/7.23

#### FOREIGN PATENT DOCUMENTS

wo	WO 92/16645	10/1992
wo	WO 95/29990	11/1995
wo	WO 95/29994	11/1995

#### OTHER PURI ICATIONS

Chiarello, E. Oncogene 16: 541-545, 1998. Kelemen, Genes Chromosomes Cancer 11:195–198, 1994.\* Drexler, Leukemia & Lymphoma 9:1-25, 1993.\* Embleton, Immunol. Scr. 23:181-207, 1984.\*

Heu, In: Tissue Culture Meth & Applications, Kruse & Patterson, Eds. p. 764, 1973.\*

Mustafa O. Intl. J. Oncol. 8(5):883-888, 1996.\* ATCC Catalogue of Cell Lines & Hybridomas, 6th edition, pp. 145 and 222, 1988.\*

Bernardino et al. "Characterization of Chromosome change in two human prostatic charcinoma cell lines (PC-3 and DU 145) using chromosome painting and comparative genomic

hybridization" Cancer Genet. Cytogenet. vol. 96, pp. 123-128, 1997.\* Freshney, Culture of Animal Cells, A manual of basic

technique chapter 13, p. 130, 1983.4 Smith, R. T. "Cancer and the immune system" Clinical Immunology. vol. 41 No. 4, pp. 841-850, Aug. 1994.\* McInemey J. M et al. Gene Therapy 7(8): 653-63, 2000.\* Parda et al, "Neoplastic Transformation of a Human Prostate Epithelial Cell Line by the v-Ki-ras Oncogene", The Pros-

tate 23:91-98 (1993). Hayward et al, "Establishment and Characterization of an Immortalized But Non-Transformed Human Prostate Epithelial Cell Line: BPH-1", In Vitro Cell Dev. Biol. 31A:14-24, Jan. 1995

Castagnetta et al. "Prostate Long-Term Epithelial Cell Lines". Annals of The New York Academy of Sciences, vol. 595, pp. 149-164, 1990.

Boudou et al, "Distinct Androgen 5a-Reduction Pathways in Cultured Fibroblasts and Immortalized Epithelial Cells From Normal Human Adult Prostate". The Journal of Urology, vol. 152, 226-231, Jul. 1994.

Narayan et al, "Establishment and Characterization of a Human Primary Prostatic Adenocarcinoma Cell Line (ND-1)", The Journal of Urology, vol. 148, 1600-1604, Nov 1992

Rhim et al, "Stepwise immortalization and transformation of adult human prostate epithelial cells by a combination of HPV-18 and v-Ki-ras", Proc. Natl. Acad. Sci. USA, vol. 91, pp. 11874-11878, Dec. 1994.

Primary Examiner-Susan Ungar Assistant Examiner-Minh-Tam Davis (74) Attorney, Agent, or Firm-Leydig, Voit & Mayer, Ltd.

ABSTRACT

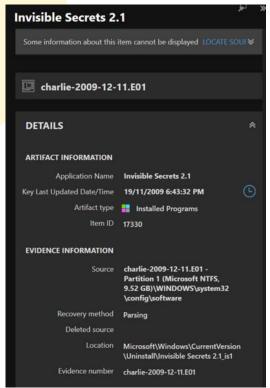
The present invention relates to immortalized, malignant, human, adult prostate epithelial cell lines or cell lines derived therefrom useful in the diagnosis and treatment of prostate cancer. More particularly, the present invention relates to cloned, immortalized, malignant, human, adult prostate epithelial cell lines and uses of these cell lines for the diagnosis and treatment of cancer, Furthermore, the present invention provides for the characterization of said cell lines through the analysis of specific chromosomal

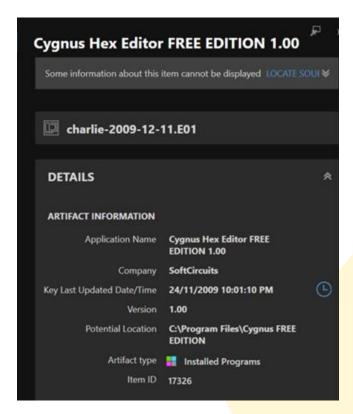
21 Claims, 6 Drawing Sheets

Patent 1 used for extortion

Patent 2 used for extortion

### **Supporting Evidence - Software Required**

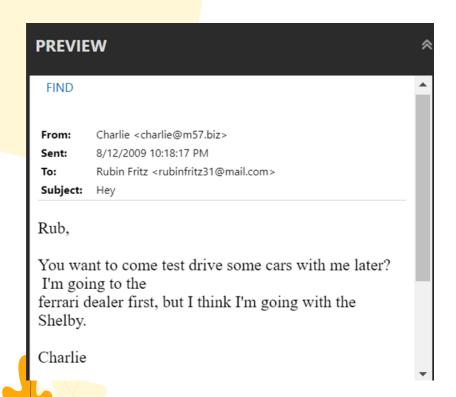


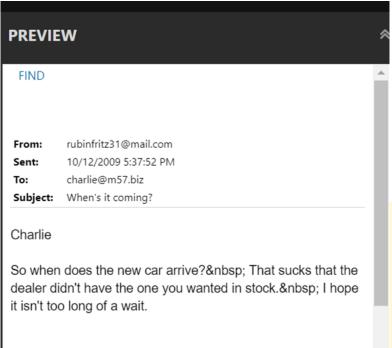




Installed on 24 Nov 2009

### Supporting Evidence - Change in lifestyle







05 Terry

### Case 1: Selling office equipment on Craigslist

#### **20th Nov 2009**

Terry Johnson swapped out Jo's computer

#### **24th Nov 2009**

Dell computer was listed for sale

#### 9th Dec 2009

Dell Monitor and HP Printer was listed as well

#### **20th Nov 2009**

Terry assured both Jo and Pat that the equipment will be properly disposed of

#### **30th Nov 2009**

Aaron Greene negotiated with Terry to meet that night to deal Jo's computer

### Computer belonging to Jo

#### M57.biz Computer Inventory List

Item Description	Assigned To	M57.biz Serial No.
HP Printer	N/A	P1111
ThinkVision Monitor	Terry	M1113
Dell Computer	Terry	C1112
Dell Computer	Pat	C1113
Dell Computer	N/A	C1111
Dell Computer	Charlie	C1114
Dell Monitor	Pat	M1112
Dell Monitor	Jo	M1111
Toshiba Monitor	Charlie	M1114
Dell Computer	Jo	C1115
Generic Printer	M57	P1112

Inventory List as claimed by Terry

```
Pat,
You are correct.

Terry
---- Original Message ----=20
From: Pat McGoo=20
To: terry@m57.biz=20
Cc: jo@m57.biz=20
Sent: Thursday, December 10, 2009 2:11 PM
Subject: Computer Serial Number

Terry,
is this serial number from that computer Jo used to have? Cllll
Pat
```

Serial Number that Jo used to have matches the N/A



### **Equipment being sold**

```
> Aaron,
> The computer is still available. I'll give you a call later this afternoon with directions to my place. Talk to you soon.
> Terry
> Terry
> Criginal Message ----
*From: * Aaron Greene <arongreenel2@gmail.com>
*To:* t93940@gmail.com
*Sent:* Monday, November 30, 2009 9:45 AM
*Subject:* Dell Computer For Sale - $1000 (USA)

Hi,
> Is the computer still available? I am extremely interested in the computer for sale. Please contact me at 831-555-5432 if you need to give me a call. I will be off at work at 5 tonight to check out the computer.
> Thanks,
> Aaron
```

Dell Computer deal

```
----= NextPart 000 0059 01CA7999.B17AE960
Content-Type: text/plain;
   charset="iso-8859-1"
Content-Transfer-Encoding: guoted-printable
Jean,
The two items are still available. I can sell you the two items for =
$200. Give me a call for information about seeing the products tonight. =
831-233-2883
- Terrv
 ---- Original Message ----=20
 From: Jean Sizemore=20
 To: t93940@gmail.com=20
 Sent: Thursday, December 10, 2009 11:26 AM
 Subject: HP Printer & Dell Monitor
 Hi,
 Would you be willing to sell me both the monitor and printer for $200 =
if they are still available?
 Thanks.
  Jean
```

Monitor and Printer deal



### Case 2: Forgery of receipt

#### 18th Nov 2009

Terry requested for a larger Hard Drive.

#### **19th Nov 2009**

Terry has claimed \$300 from Pat

#### 19th Nov 2009

Pat questioned the \$300 and Terry confirmed that the price is correct.

#### **18th Nov 2009**

Terry has a purchase receipt for the Hard Drive for \$100.

#### **19th Nov 2009**

Terry emailed Cod saying he made a quick \$200

### Forgery of Receipt

```
Terry,

You can go ahead an purchase the drive. The company will re-imburse you = on your next paycheck. Please send me the receipt when you have = purchased the drive.

Thanks,

Pat
---- Original Message ----=20
From: Terry Johnson=20
To: Pat McGoo=20
Sent: Wednesday, November 18, 2009 9:43 AM
Subject: Need Larger Hard Drive

Pat,
I need a larger hard drive since my Vista installation is taking up = too much space. Should I purchase the drive and the company can = re-imburse me later? Or are you going to purchase the drive?
```

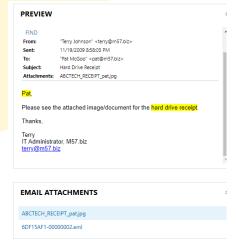
Terry Requesting for a hard disk



Original Hard Disk Receipt



### Forgery of Receipt



Terry claiming for the hard drive



Modified Hard Disk Receipt



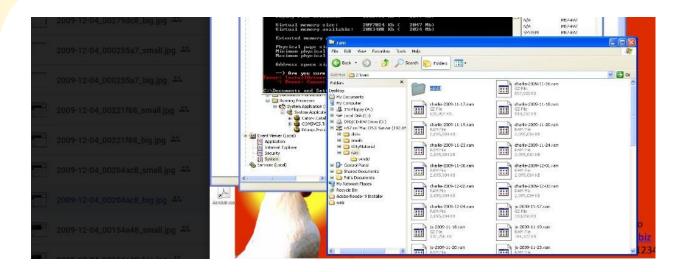
### Forgery of Receipt

```
----= NextPart 000 0038 01CA6919.1B5DC730
Content-Type: text/plain;
   charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
It costs more when you need a new hard drive immediatley. Here's hoping =
to this drive being good.
Thanks,
Terry
IT Administrator, M57.biz
terry@m57.biz
 ---- Original Message ----=20
 From: Pat McGoo=20
 To: Terry Johnson=20
 Sent: Thursday, November 19, 2009 1:04 PM
 Subject: Re: Hard Drive Receipt
 Terry,
 It seems that $300 is a little expensive for a 40GB hard drive. Oh =
well, at least work is getting done.
 Thanks,
 Pat
 CEO, M57.biz
 pat@m57.biz
```

Terry confirming that the hard drive costs \$300



### Case 3: Spyware Usage



Images of Pat's desktop was found on Terry's computer. Memory dumping tools were used on Charlie and Jo's computer as well

# Other activities: Using office computer for recreational activities

19 Of interest	http://www.gamblersanonymous.org/
20 Of interest	http://www.gamblersanonymous.org/mtgdirTOP.html
21 Of interest	http://www.gamblersanonymous.org/history.html
22 Of interest	http://www.gamblersanonymous.org/recovery.html

Firefox / Internet Explorer Web History



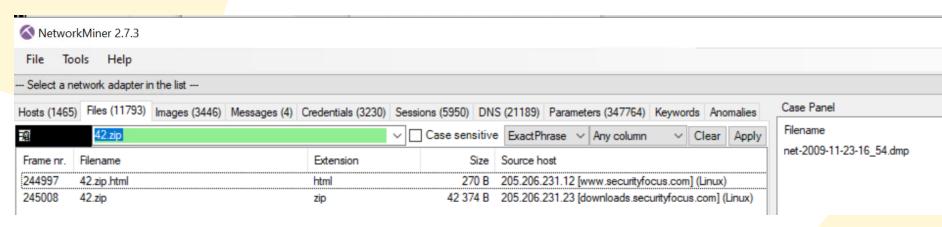
# Other activities: Downloading keylogging software

	0			
A.	В	С	D	E
ord	Tags	Comments	URL	User
1	Of interest		file:///C:/Users/terry/Documents/Downloads/skl0g/readme.tx	terry
2	Of interest		file:///C:/Users/terry/Documents/Downloads/keylogger.zip	terry
3	Of interest		file:///C:/Users/terry/Documents/Downloads/skl0g/readme.tx	terry
4	Of interest		file:///C:/Users/terry/Documents/Downloads/keylogger.zip	terry

Downloading keylogging software



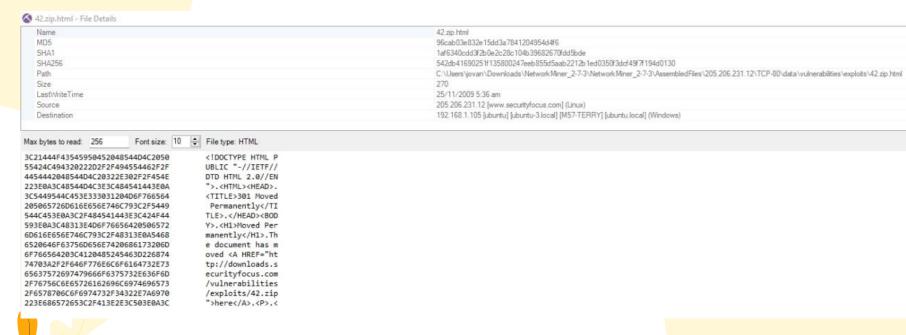
# Other activities: Downloading malicious files



42-zip downloaded using Terry's IP address



# Other activities: Downloading malicious files



### Conclusion



Jo indeed responsible for the files found on the purchased machine.





Terry Johnson, the IT administrator, has been selling office equipment for quick cash. Terry secretly spy on Pat computer using keylogger and remove desktop software.

Charlie has been selling patents from his client's company (Nitroba) to their competitor (project2400) for large amounts of money to fund his own extravagant lifestyle while also extorting money from swexpert



We recommend the infrastructure team to come up with a list of approved software, and guidelines on how remote desktop assistance should be provided



### THANKS

Do you have any questions?



