Recovering Deleted and Damaged Files (4e)

Digital Forensics, Investigation, and Response, Fourth Edition - Lab 03

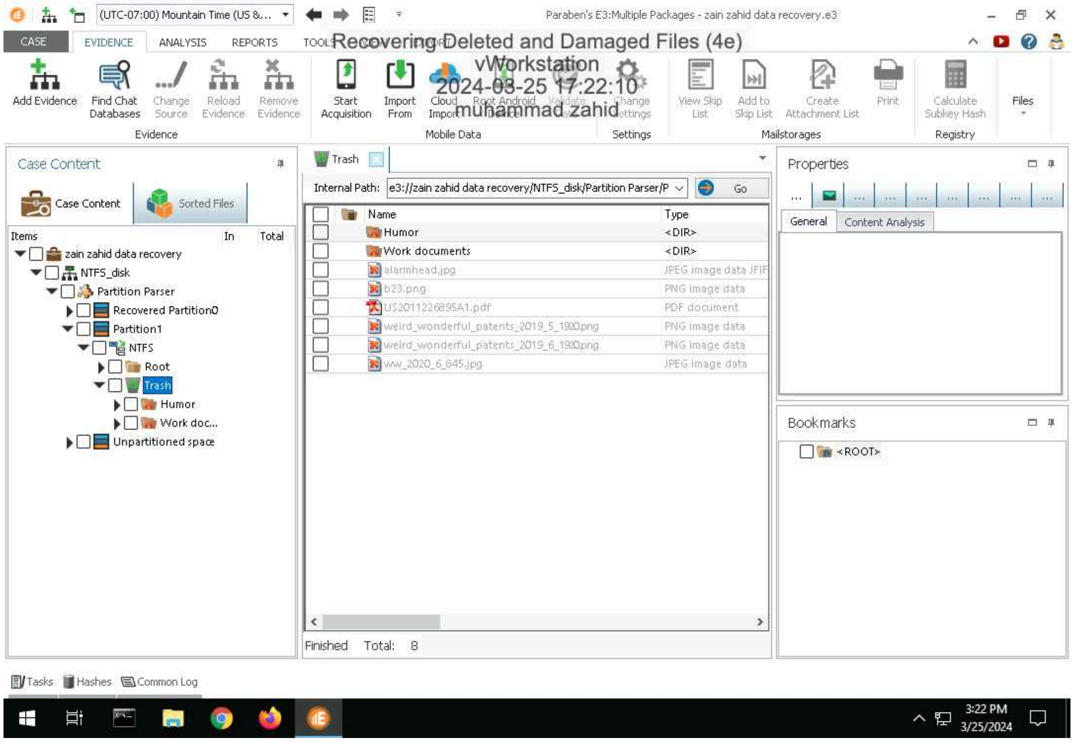
Student: muhammad zahid	Email: zahid1mz@cmich.edu
Time on Task: 6 hours, 46 minutes	Progress: 100%

Report Generated: Wednesday, March 27, 2024 at 3:01 AM

Section 1: Hands-On Demonstration

Part 1: Recover Deleted Files from an NTFS Drive Image with E3

13. **Make a screen capture** showing the **list of recovered files and folders in the E3 Trash folder**.

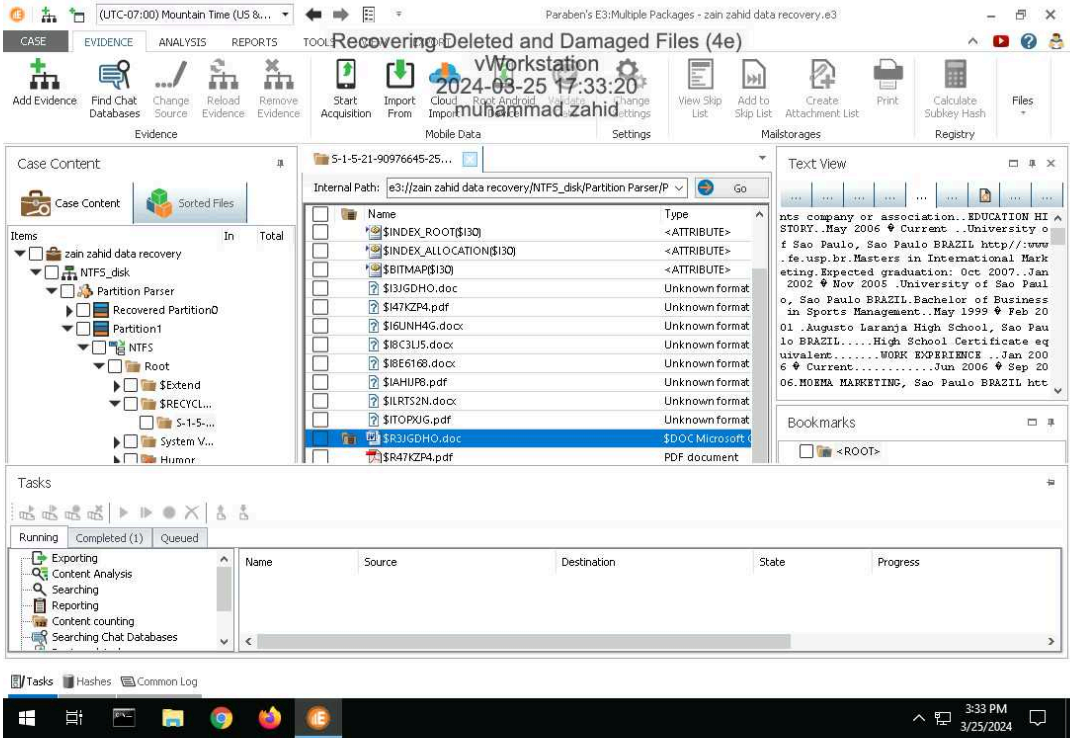


Internal Path: e3://zain zahid data recovery/NTFS_disk/Partition Parser/P

Name	Type
Humor	<DIR>
Work documents	<DIR>
alarmhead.jpg	JPEG image data JFIF
b23.png	PNG image data
US2011226895A1.pdf	PDF document
weird_wonderful_patents_2019_5_1920.png	PNG image data
weird_wonderful_patents_2019_6_1920.png	PNG image data
ww_2020_6_845.jpg	JPEG image data

Finished Total: 8

20. **Make a screen capture** showing the **patent file in the File Viewer**.



Recovering Deleted and Damaged Files (4e)
vWorkstation
2024-03-25 17:33:20
muhammad zahid

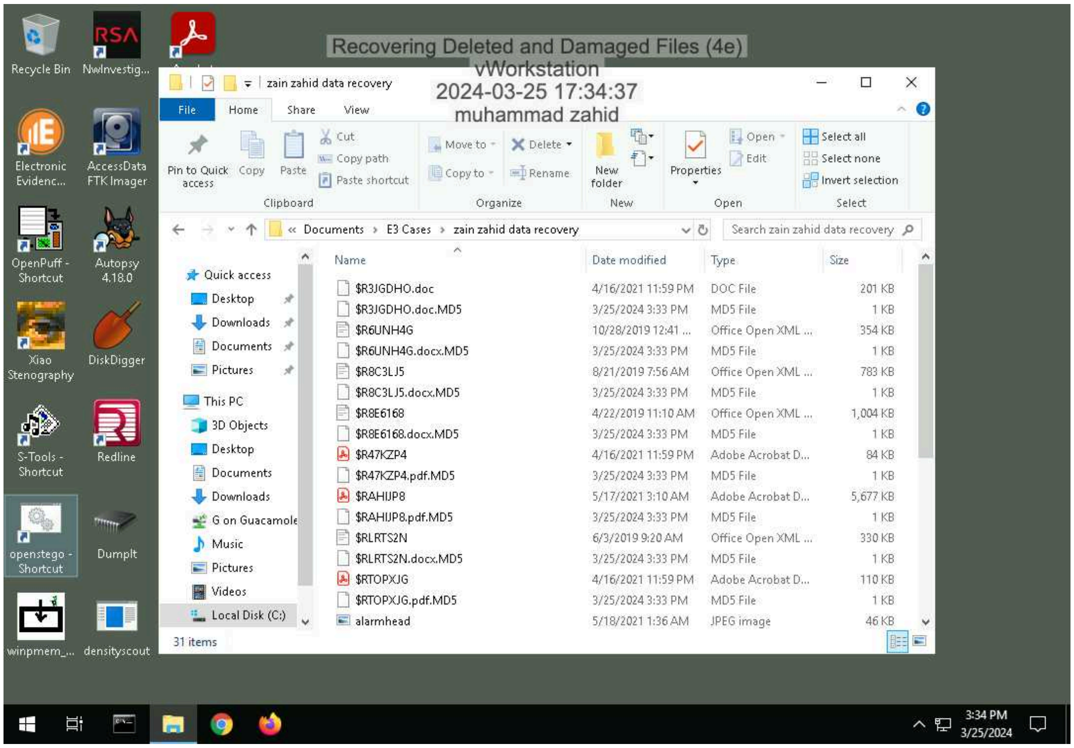
S-1-5-21-90976645-25...

Internal Path: e3://zain zahid data recovery/NTFS_disk/Partition Parser/P

Name	Type
$INDEX_ROOT($I30)	<ATTRIBUTE>
$INDEX_ALLOCATION($I30)	<ATTRIBUTE>
$BITMAP($I30)	<ATTRIBUTE>
$I3JGDHO.doc	Unknown format
$I47KZP4.pdf	Unknown format
$I6UNH4G.docx	Unknown format
$I8C3LJ5.docx	Unknown format
$I8E6168.docx	Unknown format
$IAHIJP8.pdf	Unknown format
$ILRTS2N.docx	Unknown format
$ITOPXJG.pdf	Unknown format
$R3JGDHO.doc	$DOC Microsoft (
$R47KZP4.pdf	PDF document

```
nts company or association..EDUCATION HI
STORY..May 2006 � Current ..University o
f Sao Paulo, Sao Paulo BRAZIL http//:www
.fe.usp.br.Masters in International Mark
eting.Expected graduation: Oct 2007..Jan
 2002 � Nov 2005 .University of Sao Paul
o, Sao Paulo BRAZIL.Bachelor of Business
 in Sports Management..May 1999 � Feb 20
01 .Augusto Laranja High School, Sao Pau
lo BRAZIL.....High School Certificate eq
uivalent.......WORK EXPERIENCE ..Jan 200
6 � Current...........Jun 2006 � Sep 20
06.MOEMA MARKETING, Sao Paulo BRAZIL htt
```

25. **Make a screen capture** showing the **recovered files in the File Explorer**.



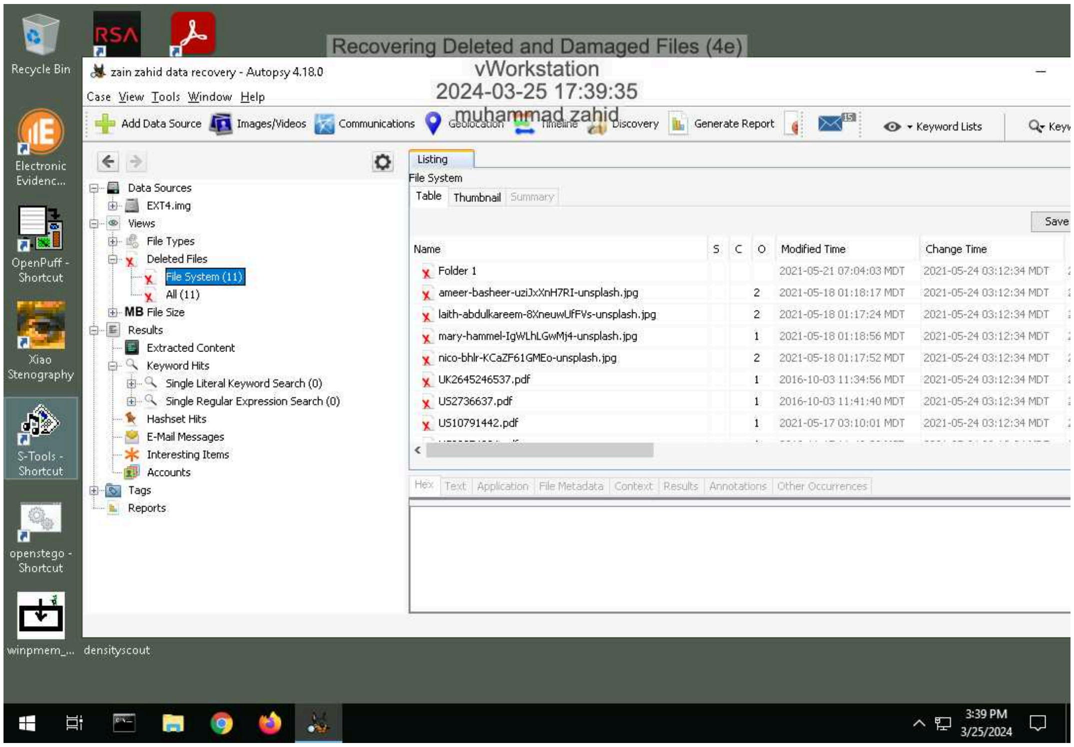
Recovering Deleted and Damaged Files (4e)
vWorkstation
2024-03-25 17:34:37
muhammad zahid

« Documents › E3 Cases › zain zahid data recovery

Name	Date modified	Type	Size
$R3JGDHO.doc	4/16/2021 11:59 PM	DOC File	201 KB
$R3JGDHO.doc.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$R6UNH4G	10/28/2019 12:41 ...	Office Open XML ...	354 KB
$R6UNH4G.docx.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$R8C3LJ5	8/21/2019 7:56 AM	Office Open XML ...	783 KB
$R8C3LJ5.docx.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$R8E6168	4/22/2019 11:10 AM	Office Open XML ...	1,004 KB
$R8E6168.docx.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$R47KZP4	4/16/2021 11:59 PM	Adobe Acrobat D...	84 KB
$R47KZP4.pdf.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$RAHIJP8	5/17/2021 3:10 AM	Adobe Acrobat D...	5,677 KB
$RAHIJP8.pdf.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$RLRTS2N	6/3/2019 9:20 AM	Office Open XML ...	330 KB
$RLRTS2N.docx.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
$RTOPXJG	4/16/2021 11:59 PM	Adobe Acrobat D...	110 KB
$RTOPXJG.pdf.MD5	3/25/2024 3:33 PM	MD5 File	1 KB
alarmhead	5/18/2021 1:36 AM	JPEG image	46 KB

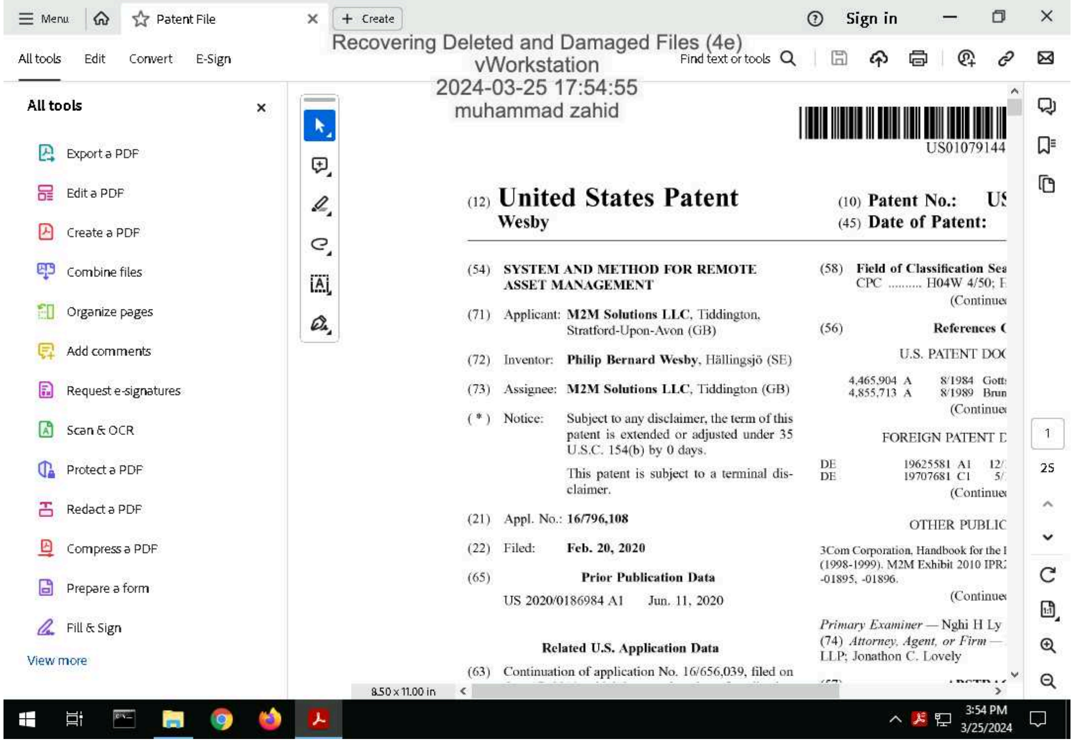
Part 2: Recover Deleted Files from an Ext4 Drive Image with Autopsy

14. **Make a screen capture** showing the **contents of the list of deleted files in Autopsy**.



Name	S	C	O	Modified Time	Change Time
Folder 1				2021-05-21 07:04:03 MDT	2021-05-24 03:12:34 MDT
ameer-basheer-uziJxXnH7RI-unsplash.jpg			2	2021-05-18 01:18:17 MDT	2021-05-24 03:12:34 MDT
laith-abdulkareem-8XneuwUfFVs-unsplash.jpg			2	2021-05-18 01:17:24 MDT	2021-05-24 03:12:34 MDT
mary-hammel-IgWLhLGwMj4-unsplash.jpg			1	2021-05-18 01:18:56 MDT	2021-05-24 03:12:34 MDT
nico-bhlr-KCaZF61GMEo-unsplash.jpg			2	2021-05-18 01:17:52 MDT	2021-05-24 03:12:34 MDT
UK2645246537.pdf			1	2016-10-03 11:34:56 MDT	2021-05-24 03:12:34 MDT
US2736637.pdf			1	2016-10-03 11:41:40 MDT	2021-05-24 03:12:34 MDT
US10791442.pdf			1	2021-05-17 03:10:01 MDT	2021-05-24 03:12:34 MDT

22. **Make a screen capture** showing the **recovered patent file**.



Recovering Deleted and Damaged Files (4e)
vWorkstation
2024-03-25 17:54:55
muhammad zahid

US01079144

(12) **United States Patent**
Wesby

(10) **Patent No.:** US
(45) **Date of Patent:**

(54) **SYSTEM AND METHOD FOR REMOTE ASSET MANAGEMENT**

(71) Applicant: **M2M Solutions LLC**, Tiddington, Stratford-Upon-Avon (GB)

(72) Inventor: **Philip Bernard Wesby**, Hällingsjö (SE)

(73) Assignee: **M2M Solutions LLC**, Tiddington (GB)

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

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/796,108**

(22) Filed: **Feb. 20, 2020**

(65) **Prior Publication Data**

US 2020/0186984 A1 Jun. 11, 2020

Related U.S. Application Data

(63) Continuation of application No. 16/656,039, filed on

(58) **Field of Classification Sea**
CPC .... H04W 4/50; I
(Continue

(56) **References C**

U.S. PATENT DOC

4,465,904	A	8/1984	Gott
4,855,713	A	8/1989	Brun

(Continue

FOREIGN PATENT D

DE	19625581	A1	12/
DE	19707681	C1	5/

(Continue

OTHER PUBLIC

3Com Corporation, Handbook for the I (1998-1999). M2M Exhibit 2010 IPR -01895, -01896.

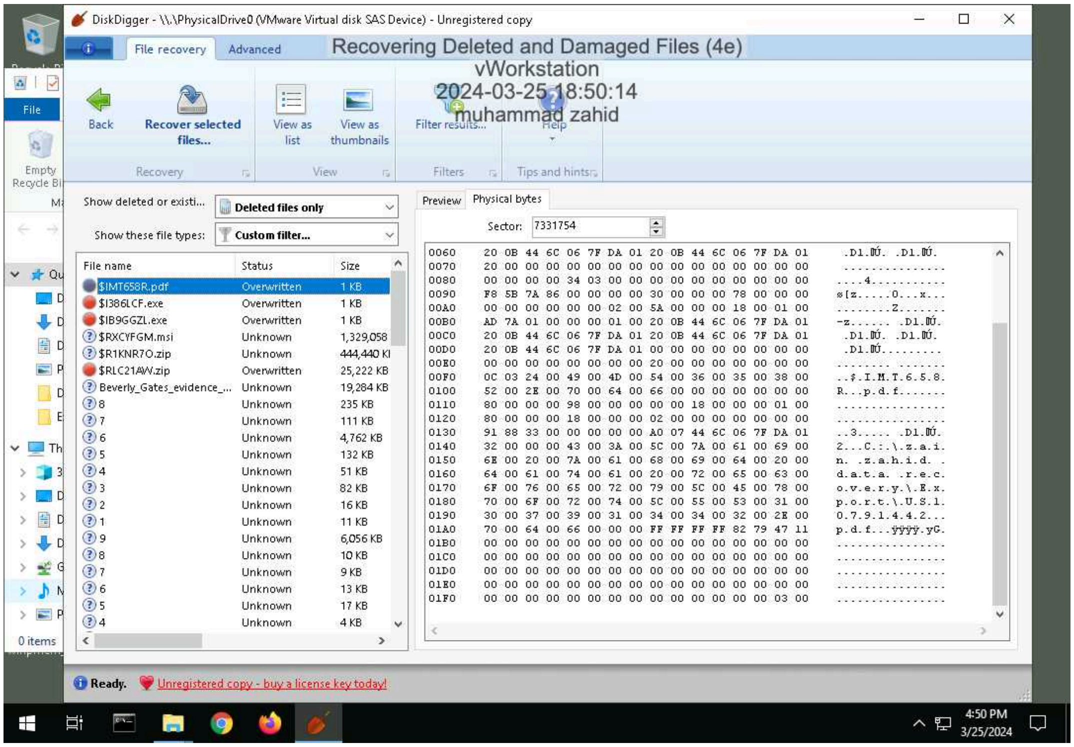
(Continue

Primary Examiner — Nghi H Ly
(74) *Attorney, Agent, or Firm* — LLP; Jonathon C. Lovely

Section 2: Applied Learning

Part 1: Recover Deleted Files in Windows with DiskDigger

9. **Make a screen capture** showing the **deleted patent file in DiskDigger**.



DiskDigger - \\.\PhysicalDrive0 (VMware Virtual disk SAS Device) - Unregistered copy

Recovering Deleted and Damaged Files (4e)
vWorkstation
2024-03-25 18:50:14
muhammad zahid

Show deleted or existi...: Deleted files only

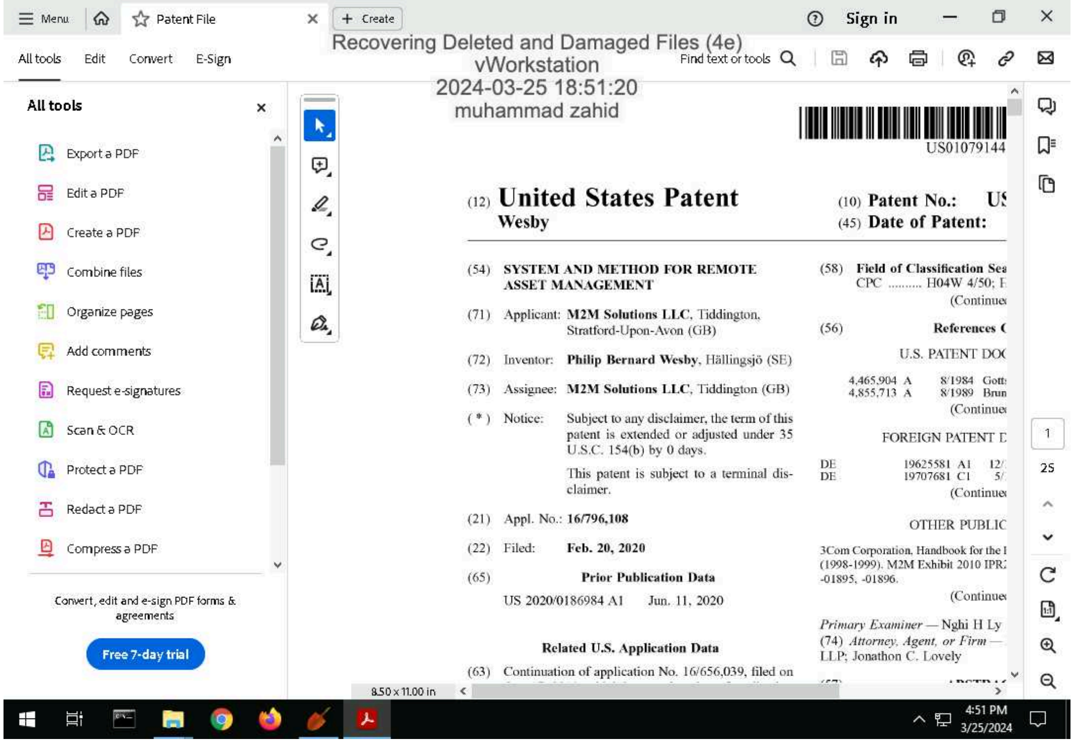
Show these file types: Custom filter...

File name	Status	Size
$IMT658R.pdf	Overwritten	1 KB
$I386LCF.exe	Overwritten	1 KB
$IB9GGZL.exe	Overwritten	1 KB
$RXCYFGM.msi	Unknown	1,329,058
$R1KNR7O.zip	Unknown	444,440 KI
$RLC21AW.zip	Overwritten	25,222 KB
Beverly_Gates_evidence_...	Unknown	19,284 KB
8	Unknown	235 KB
7	Unknown	111 KB
6	Unknown	4,762 KB
5	Unknown	132 KB
4	Unknown	51 KB
3	Unknown	82 KB
2	Unknown	16 KB
1	Unknown	11 KB
9	Unknown	6,056 KB
8	Unknown	10 KB
7	Unknown	9 KB
6	Unknown	13 KB
5	Unknown	17 KB
4	Unknown	4 KB

Sector: 7331754

```
0060    20 0B 44 6C 06 7F DA 01 20 0B 44 6C 06 7F DA 01     .Dl.ÚÚ. .Dl.ÚÚ.
0070    20 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00     ...............
0080    00 00 00 00 34 03 00 00 00 00 00 00 00 00 00 00    ....4...........
0090    F8 5B 7A 86 00 00 00 00 30 00 00 00 78 00 00 00    ø[z.....0...x...
00A0    00 00 00 00 00 00 02 00 5A 00 00 00 18 00 01 00    ........Z.......
00B0    AD 7A 01 00 00 00 01 00 20 0B 44 6C 06 7F DA 01    -z...... .Dl.ÚÚ.
00C0    20 0B 44 6C 06 7F DA 01 20 0B 44 6C 06 7F DA 01     .Dl.ÚÚ. .Dl.ÚÚ.
00D0    20 0B 44 6C 06 7F DA 01 00 00 00 00 00 00 00 00     .Dl.ÚÚ.........
00E0    00 00 00 00 00 00 00 00 20 00 00 00 00 00 00 00    ........ .......
00F0    0C 03 24 00 49 00 4D 00 54 00 36 00 35 00 38 00    ..$.I.M.T.6.5.8.
0100    52 00 2E 00 70 00 64 00 66 00 00 00 00 00 00 00    R...p.d.f.......
0110    80 00 00 00 98 00 00 00 00 00 18 00 00 00 01 00    ................
0120    80 00 00 00 18 00 00 00 02 00 00 00 00 00 00 00    ................
0130    91 88 33 00 00 00 00 00 A0 07 44 6C 06 7F DA 01    ..3..... .Dl.ÚÚ.
0140    32 00 00 00 43 00 3A 00 5C 00 7A 00 61 00 69 00    2...C.:.\.z.a.i.
0150    6E 00 20 00 7A 00 61 00 68 00 69 00 64 00 20 00    n. .z.a.h.i.d. .
0160    64 00 61 00 74 00 61 00 20 00 72 00 65 00 63 00    d.a.t.a. .r.e.c.
0170    6F 00 76 00 65 00 72 00 79 00 5C 00 45 00 78 00    o.v.e.r.y.\.E.x.
0180    70 00 6F 00 72 00 74 00 5C 00 55 00 53 00 31 00    p.o.r.t.\.U.S.1.
0190    30 00 37 00 39 00 31 00 34 00 34 00 32 00 2E 00    0.7.9.1.4.4.2...
01A0    70 00 64 00 66 00 00 00 FF FF FF FF 82 79 47 11    p.d.f...ÿÿÿÿ.yG.
01B0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
01C0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
01D0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
01E0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
01F0    00 00 00 00 00 00 00 00 00 00 00 00 00 00 03 00    ................
```

15. **Make a screen capture** showing the **recovered patent file**.



Recovering Deleted and Damaged Files (4e)
vWorkstation
2024-03-25 18:51:20
muhammad zahid

US01079144

(12) **United States Patent**
Wesby

(10) **Patent No.:** **US**
(45) **Date of Patent:**

(54) **SYSTEM AND METHOD FOR REMOTE ASSET MANAGEMENT**

(71) Applicant: **M2M Solutions LLC**, Tiddington, Stratford-Upon-Avon (GB)

(72) Inventor: **Philip Bernard Wesby**, Hällingsjö (SE)

(73) Assignee: **M2M Solutions LLC**, Tiddington (GB)

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This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/796,108**

(22) Filed: **Feb. 20, 2020**

(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 16/656,039, filed on

(58) **Field of Classification Sea**
CPC .... H04W 4/50; I
(Continue

(56) **References C**

U.S. PATENT DOC

4,465,904 A 8/1984 Gott
4,855,713 A 8/1989 Brun
(Continue

FOREIGN PATENT D

DE 19625581 A1 12/
DE 19707681 C1 5/
(Continue

OTHER PUBLIC

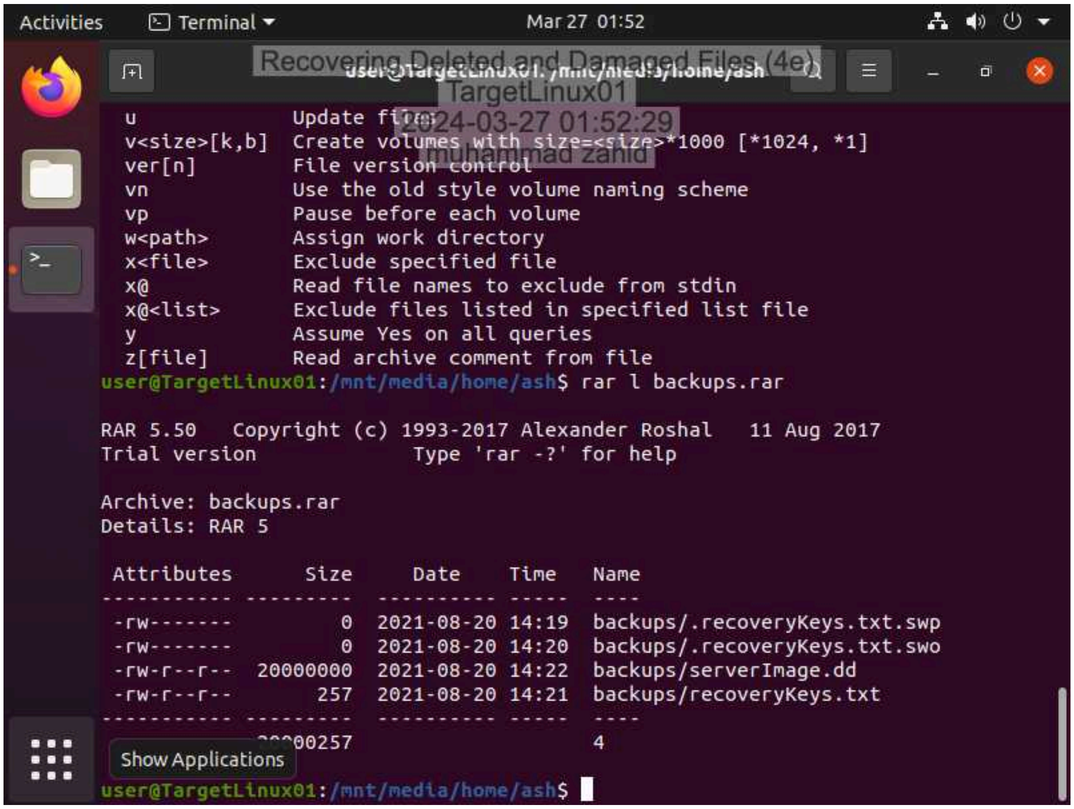
3Com Corporation, Handbook for the I (1998-1999). M2M Exhibit 2010 IPR -01895, -01896.

(Continue

Primary Examiner — Nghi H Ly
(74) *Attorney, Agent, or Firm* — LLP; Jonathon C. Lovely

Part 2: Recover Deleted Files in Linux with PhotoRec

9. **Make a screen capture** showing the **contents of the RAR archive in the /mnt/media/home/ash directory**.



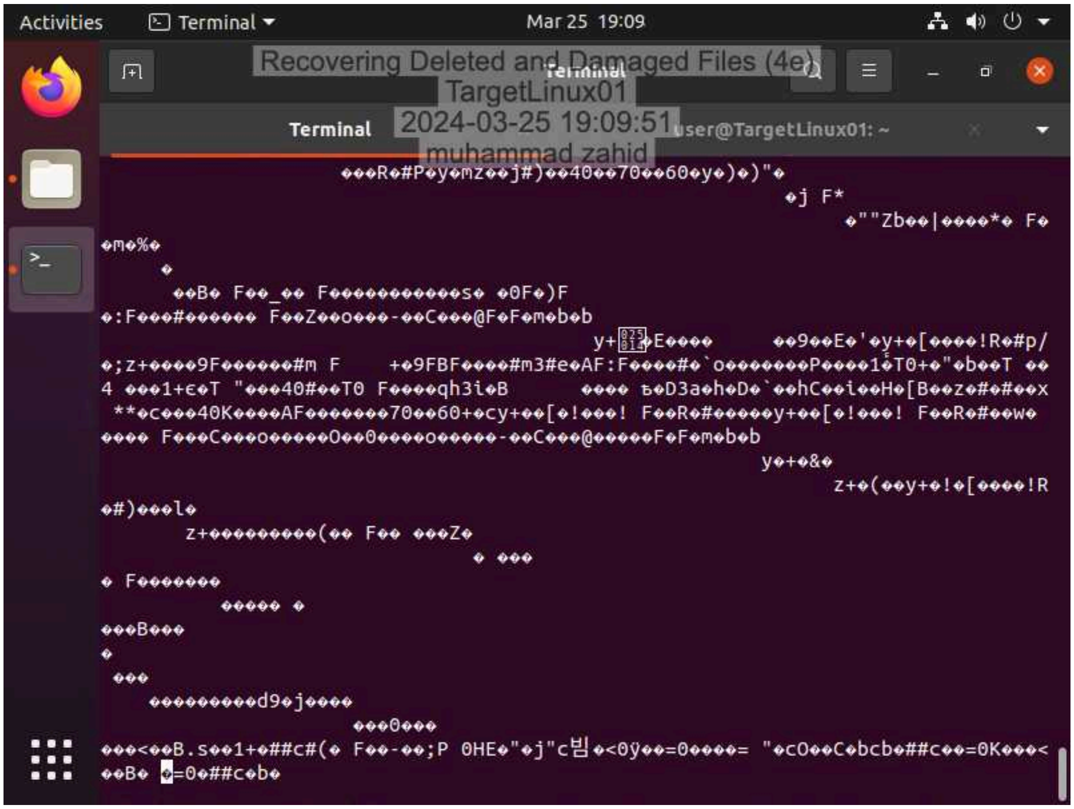
```
  u             Update files
  v<size>[k,b]  Create volumes with size=<size>*1000 [*1024, *1]
  ver[n]        File version control
  vn            Use the old style volume naming scheme
  vp            Pause before each volume
  w<path>       Assign work directory
  x<file>       Exclude specified file
  x@            Read file names to exclude from stdin
  x@<list>      Exclude files listed in specified list file
  y             Assume Yes on all queries
  z[file]       Read archive comment from file
user@TargetLinux01:/mnt/media/home/ash$ rar l backups.rar

RAR 5.50   Copyright (c) 1993-2017 Alexander Roshal   11 Aug 2017
Trial version             Type 'rar -?' for help

Archive: backups.rar
Details: RAR 5

 Attributes      Size     Date    Time   Name
----------- ---------  ---------- -----  ----
 -rw-------         0  2021-08-20 14:19  backups/.recoveryKeys.txt.swp
 -rw-------         0  2021-08-20 14:20  backups/.recoveryKeys.txt.swo
 -rw-r--r--  20000000  2021-08-20 14:22  backups/serverImage.dd
 -rw-r--r--       257  2021-08-20 14:21  backups/recoveryKeys.txt
----------- ---------  ---------- -----  ----
             20000257                    4
user@TargetLinux01:/mnt/media/home/ash$
```

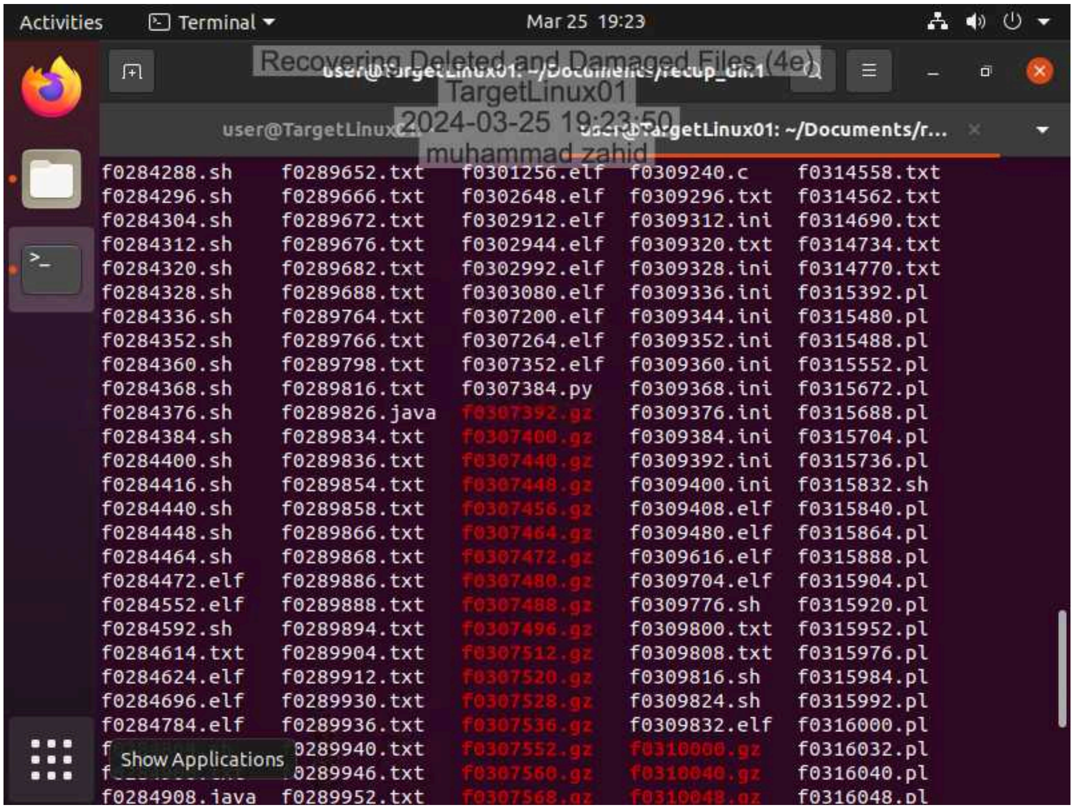
15. **Make a screen capture** showing the **failed mount attempt on the /dev/sdb2 device**.



Recovering Deleted and Damaged Files (4e)
TargetLinux01
2024-03-25 19:09:51
muhammad zahid

```
                    ���R�#P�y�mz��j#)��40��70��60�y�)�)"�
                                                         �j F*
                                                              �""Zb��|����*� F�
�m�%�
     �
      ��B� F��_�� F������������s� �0F�)F
�:F���#������ F��Z��o���-��C���@F�F�m�b�b
                                         y+��E����     ��9��E�'�y+�[����!R�#p/
�;z+����9F������#m F    +�9FBF����#m3#e�AF:F����#�`o�������P����1�T0+�"�b��T ��
4 ���1+є�T "���40#��T0 F����qh3i�B      ���� ъ�D3a�h�D�`��hC��i��H�[B��z�#�#��x
 **�c���40K����AF�������70��60+�cy+��[�!���! F��R�#�����y+��[�!���! F��R�#��w�
���� F���C���o������O��0�����o������-��C���@�����F�F�m�b�b
                                                       y�+�&�
                                                             z+�(��y+�!�[����!R
�#)���l�
       z+���������(�� F�� ���Z�
                               � ���
� F�������
          ����� �
���B���
�
 ���
   ���������d9�j����
                     ���0���
���<��B.s��1+�##c#(� F��-��;P 0HE�"�j"c빔�<0ÿ��=0����= "�cO��C�bcb�##c��=0K���<
��B� �=0�##c�b�
```

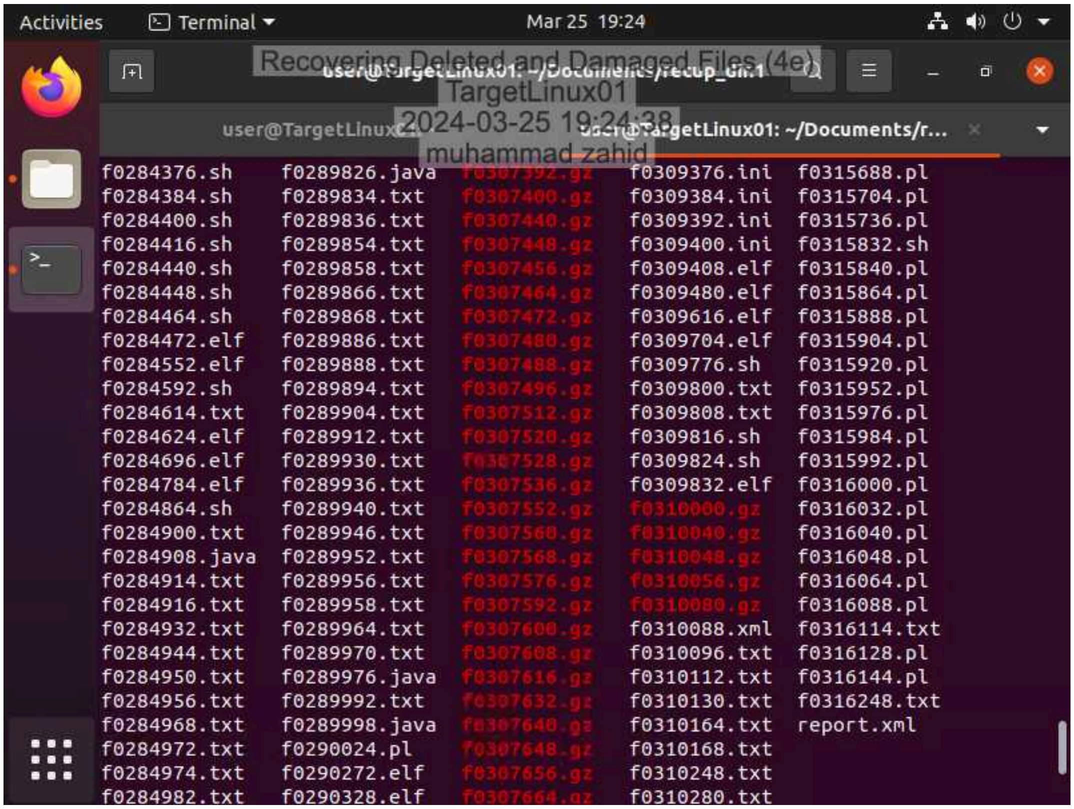
32. **Make a screen capture** showing the **compressed files recovered by PhotoRec**.


Activities
Terminal
Mar 25 19:23
user@TargetLinux01: ~/Documents/recup_dir.1
user@TargetLinux01: ~
user@TargetLinux01: ~/Documents/r...
Show Applications

Recovering Deleted and Damaged Files (4e)
TargetLinux01
2024-03-25 19:23:50
muhammad zahid

```
f0284288.sh    f0289652.txt   f0301256.elf  f0309240.c    f0314558.txt
f0284296.sh    f0289666.txt   f0302648.elf  f0309296.txt  f0314562.txt
f0284304.sh    f0289672.txt   f0302912.elf  f0309312.ini  f0314690.txt
f0284312.sh    f0289676.txt   f0302944.elf  f0309320.txt  f0314734.txt
f0284320.sh    f0289682.txt   f0302992.elf  f0309328.ini  f0314770.txt
f0284328.sh    f0289688.txt   f0303080.elf  f0309336.ini  f0315392.pl
f0284336.sh    f0289764.txt   f0307200.elf  f0309344.ini  f0315480.pl
f0284352.sh    f0289766.txt   f0307264.elf  f0309352.ini  f0315488.pl
f0284360.sh    f0289798.txt   f0307352.elf  f0309360.ini  f0315552.pl
f0284368.sh    f0289816.txt   f0307384.py   f0309368.ini  f0315672.pl
f0284376.sh    f0289826.java  f0307392.gz   f0309376.ini  f0315688.pl
f0284384.sh    f0289834.txt   f0307400.gz   f0309384.ini  f0315704.pl
f0284400.sh    f0289836.txt   f0307440.gz   f0309392.ini  f0315736.pl
f0284416.sh    f0289854.txt   f0307448.gz   f0309400.ini  f0315832.sh
f0284440.sh    f0289858.txt   f0307456.gz   f0309408.elf  f0315840.pl
f0284448.sh    f0289866.txt   f0307464.gz   f0309480.elf  f0315864.pl
f0284464.sh    f0289868.txt   f0307472.gz   f0309616.elf  f0315888.pl
f0284472.elf   f0289886.txt   f0307480.gz   f0309704.elf  f0315904.pl
f0284552.elf   f0289888.txt   f0307488.gz   f0309776.sh   f0315920.pl
f0284592.sh    f0289894.txt   f0307496.gz   f0309800.txt  f0315952.pl
f0284614.txt   f0289904.txt   f0307512.gz   f0309808.txt  f0315976.pl
f0284624.elf   f0289912.txt   f0307520.gz   f0309816.sh   f0315984.pl
f0284696.elf   f0289930.txt   f0307528.gz   f0309824.sh   f0315992.pl
f0284784.elf   f0289936.txt   f0307536.gz   f0309832.elf  f0316000.pl
f               0289940.txt   f0307552.gz   f0310000.gz   f0316032.pl
f               0289946.txt   f0307560.gz   f0310040.gz   f0316040.pl
f0284908.java  f0289952.txt   f0307568.gz   f0310048.gz   f0316048.pl
```

35. **Make a screen capture** showing the **backup files recovered from the RAR archive**.

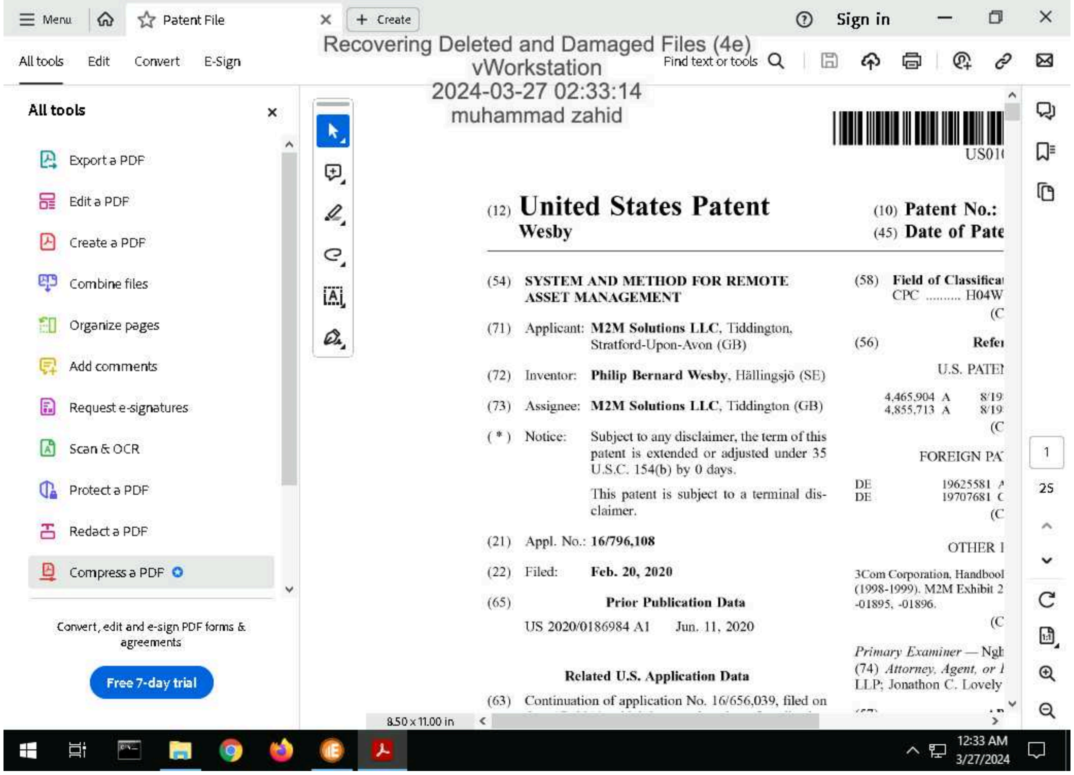

Activities
Terminal
Mar 25 19:24
Recovering Deleted and Damaged Files (4e)
user@TargetLinux01: ~/Documents/recup_dir.1
TargetLinux01
2024-03-25 19:24:38
muhammad zahid
user@TargetLinux01
user@TargetLinux01: ~/Documents/r...

```
f0284376.sh    f0289826.java  f0307392.gz   f0309376.ini  f0315688.pl
f0284384.sh    f0289834.txt   f0307400.gz   f0309384.ini  f0315704.pl
f0284400.sh    f0289836.txt   f0307440.gz   f0309392.ini  f0315736.pl
f0284416.sh    f0289854.txt   f0307448.gz   f0309400.ini  f0315832.sh
f0284440.sh    f0289858.txt   f0307456.gz   f0309408.elf  f0315840.pl
f0284448.sh    f0289866.txt   f0307464.gz   f0309480.elf  f0315864.pl
f0284464.sh    f0289868.txt   f0307472.gz   f0309616.elf  f0315888.pl
f0284472.elf   f0289886.txt   f0307480.gz   f0309704.elf  f0315904.pl
f0284552.elf   f0289888.txt   f0307488.gz   f0309776.sh   f0315920.pl
f0284592.sh    f0289894.txt   f0307496.gz   f0309800.txt  f0315952.pl
f0284614.txt   f0289904.txt   f0307512.gz   f0309808.txt  f0315976.pl
f0284624.elf   f0289912.txt   f0307520.gz   f0309816.sh   f0315984.pl
f0284696.elf   f0289930.txt   f0307528.gz   f0309824.sh   f0315992.pl
f0284784.elf   f0289936.txt   f0307536.gz   f0309832.elf  f0316000.pl
f0284864.sh    f0289940.txt   f0307552.gz   f0310000.gz   f0316032.pl
f0284900.txt   f0289946.txt   f0307560.gz   f0310040.gz   f0316040.pl
f0284908.java  f0289952.txt   f0307568.gz   f0310048.gz   f0316048.pl
f0284914.txt   f0289956.txt   f0307576.gz   f0310056.gz   f0316064.pl
f0284916.txt   f0289958.txt   f0307592.gz   f0310080.gz   f0316088.pl
f0284932.txt   f0289964.txt   f0307600.gz   f0310088.xml  f0316114.txt
f0284944.txt   f0289970.txt   f0307608.gz   f0310096.txt  f0316128.pl
f0284950.txt   f0289976.java  f0307616.gz   f0310112.txt  f0316144.pl
f0284956.txt   f0289992.txt   f0307632.gz   f0310130.txt  f0316248.txt
f0284968.txt   f0289998.java  f0307640.gz   f0310164.txt  report.xml
f0284972.txt   f0290024.pl    f0307648.gz   f0310168.txt
f0284974.txt   f0290272.elf   f0307656.gz   f0310248.txt
f0284982.txt   f0290328.elf   f0307664.gz   f0310280.txt
```

Section 3: Challenge and Analysis

Part 1: Recover Deleted Files from a FAT Drive Image

Make a screen capture showing the **patent file recovered from the FAT32 drive image within E3**.



Recovering Deleted and Damaged Files (4e)
vWorkstation
2024-03-27 02:33:14
muhammad zahid

US01

(12) **United States Patent**
Wesby

(10) **Patent No.:**
(45) **Date of Pate**

(54) **SYSTEM AND METHOD FOR REMOTE ASSET MANAGEMENT**

(71) Applicant: **M2M Solutions LLC**, Tiddington, Stratford-Upon-Avon (GB)

(72) Inventor: **Philip Bernard Wesby**, Hällingsjö (SE)

(73) Assignee: **M2M Solutions LLC**, Tiddington (GB)

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

This patent is subject to a terminal disclaimer.

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(22) Filed: **Feb. 20, 2020**

(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 16/656,039, filed on

(58) **Field of Classificat**
CPC H04W
(C

(56) **Refe**

U.S. PATE

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(C

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OTHER I

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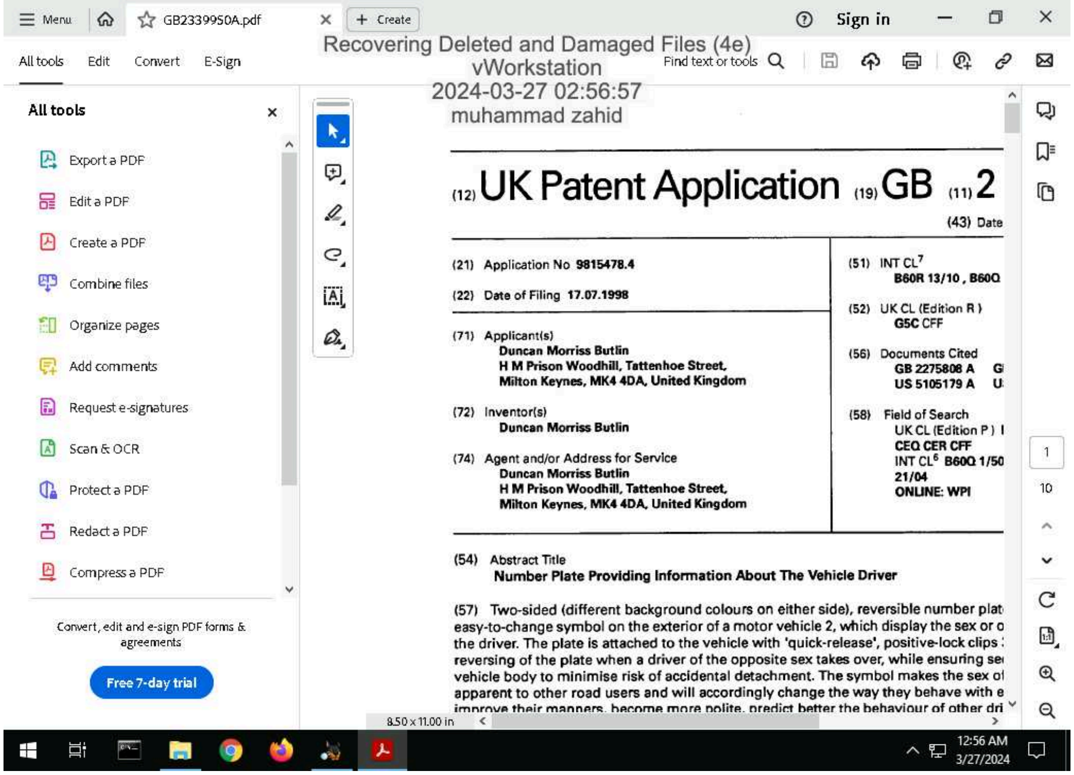
(C

Primary Examiner — Ngh
(74) *Attorney, Agent, or I* LLP; Jonathon C. Lovely

Part 2: Recover Deleted Files from a APFS Drive Image

Make a screen capture showing the **patent file recovered from the APFS drive image within Autopsy**.



(12) UK Patent Application (19) GB (11) 2

(43) Date

(21) Application No 9815478.4

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(51) INT CL^7
B60R 13/10 , B60Q

(52) UK CL (Edition R)
G5C CFF

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(58) Field of Search
UK CL (Edition P) I
CEQ CER CFF
INT CL^6 B60Q 1/50
21/04
ONLINE: WPI

(54) Abstract Title
Number Plate Providing Information About The Vehicle Driver

(57) Two-sided (different background colours on either side), reversible number plat
easy-to-change symbol on the exterior of a motor vehicle 2, which display the sex or o
the driver. The plate is attached to the vehicle with 'quick-release', positive-lock clips
reversing of the plate when a driver of the opposite sex takes over, while ensuring se
vehicle body to minimise risk of accidental detachment. The symbol makes the sex o
apparent to other road users and will accordingly change the way they behave with e
improve their manners, become more polite, predict better the behaviour of other dri