

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF PENNSYLVANIA

HEADHUNTER, LLC
Plaintiff

v.

JOHN DOES 1-10,

Defendants

Docket. No. _____

COMPLAINT

COPYRIGHT

JURY TRIAL DEMANDED

COMPLAINT

HEADHUNTER, LLC (hereinafter “Headhunter”), by and through counsel,
hereby alleges the following:

1. This is a civil action for copyright infringement of federally registered copyrights in violation of the Copyright Act of 1976, 17 U.S.C. §§ 101 et seq. (the “Copyright Act”). Plaintiff seeks injunctive relief, statutory damages, attorney fees and costs, and such other relief as the Court deems proper.
2. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).
3. Venue in this district is proper pursuant to 28 U.S.C. § 1391(b) and 28 U.S.C. § 1400(a) as the defendants are believed to reside in this district.

PLAINTIFF

4. Plaintiff Headhunter is a Nevada limited liability company with principal offices in Los Angeles, California and a subsidiary of Voltage Development NCCF, LLC.
5. Headhunter is the registered holder of copyrights related to *A Family Man*, a major motion picture .

6. *A Family Man* was previously released in a promotional video-on-demand format.
7. The screenplay for *A Family Man* has been registered by the Copyright Office under its original working title, *The Headhunter's Calling*, and assigned registration number TXu001967832; an application for copyright on the completed film of *A Family Man* was submitted to the Copyright Office on January 23, 2017. See Exhibit A.
8. The motion picture contains wholly original material that is copyrightable subject matter under the laws of the United States.
9. Defendant had notice of plaintiff's rights through general publication and advertising and more specifically as identified in the content of the motion picture, advertising associated with the motion picture and copies, each of which bore a proper copyright notice.
10. Headhunter seeks relief because its motion picture has not even been released domestically, yet is one of the most trafficked films in the BitTorrent network and is being illegally downloaded and distributed countless times worldwide with many confirmed instances of infringing activity traced to the Eastern District of Pennsylvania.

DEFENDANTS

11. The defendants are unknown persons, identified at this time by the IP addresses respectively assigned to each of them. Exhibit B
12. Using the BitTorrent peer-to-peer file sharing protocol, each defendant unlawfully transmitted some or all of the exact same illegal copy of *A Family Man* to each other or common third parties.

13. Furthermore, each defendant uses Comcast for their Internet Service Provider (ISP); Comcast, on information and belief, sets their subscriber's equipment to be password protected by default.
14. Comcast provides notices and information to its customers about the importance of security, informing them that they are responsible for the activity associated with their account and cautioning subscribers against allowing third party or non-authorized access.
15. The records maintained by Comcast should be able to identify either the defendant, or the subscriber who contracted with Comcast for service who in turn is likely to have knowledge that will lead to the identity of the defendant.
16. Plaintiff intends to seek discovery, including issuing a subpoena for records from Comcast to ascertain the true identities of the defendants.

BITTORENT: THE TECHNOLOGY OF PIRACY

17. The heart of the matter before the Court is a 21st Century spin on an ages-old quest — how to get something for nothing.
18. BitTorrent is what is known as a peer-to-peer file sharing protocol; it allows a theoretically limitless number of users to share very large files across the Internet at a far higher speed than earlier file sharing methods.
19. BitTorrent is not, as some believe, software, but it requires software to implement; rather BitTorrent is a file sharing protocol.
20. A protocol is a set of coded instructions that directs how software known as a BitTorrent client interacts with other users.
21. There are many different BitTorrent clients, each known by a different brand name — µTorrent, qBittorrent, and Transmission are but three — and users

may interact with anyone else on the network, even if using different BitTorrent clients.

22. No matter which BitTorrent client a person uses, using BitTorrent requires a number of volitional steps, the first of which is to install a BitTorrent client — plaintiff is unaware of any computer manufacturer shipping new computers with any BitTorrent client already installed.

23. Once installed, each BitTorrent user has access to hundreds of thousands of files, including major motion pictures, popular music, computer software, e-books, and entire seasons of hit television shows.

HOW IT WORKS

24. A user who wishes to share a new file via BitTorrent will find that it is very simple; every BitTorrent client has a function for creating new shared files, called Torrents.

25. The user identifies the file they wish to share, and the BitTorrent client takes that file and "breaks it up," into approximately 1000-2500 pieces; this means a very large file, like a high-definition motion picture, consists of relatively small puzzle pieces.

26. The BitTorrent client then assigns the new Torrent a unique hexadecimal string of characters called a Hash to the file; the Hash both identifies the file being shared and the order in which the discrete pieces must be reassembled to view the file once complete.

27. The initial user who first makes the file available for sharing is known as the Initial Seeder.

28. When a user (U1) first attempts to download the file, he or she searches through publicly available Torrents, either directly through their BitTorrent client, or through websites such as PirateBay.
29. When U1 finds the content he or she wishes to download, U1's BitTorrent client contacts the Seeder's BitTorrent client, and the Seeder begins to send U1 the file in 10KB pieces.
30. When a second user (U2) searching for the same file begins to download, U2 will receive pieces of the file from the Seeder; however, U2 will also receive what pieces U1 already has — in other words, U2 is now getting pieces from two users on the network.
31. A third user (U3) begins to download, and will receive pieces from the Seeder, and also U1 and U2.
32. The number of users continues to grow exponentially, as each new user collects pieces from all the users who already have pieces of the file, and in turn shares the pieces they have with subsequent users; the entirety of users sharing a particular file is known as a Swarm.
33. After a user has the entire file, they continue to participate in the Swarm, sharing the file in manageably sized pieces as long as their computer is connected to the Internet.
34. Participation in the Swarm is typically required — most BitTorrent clients do not permit users to download without uploading; as soon as a user has even a single piece, that piece will be shared with subsequent users.
35. However, custom built BitTorrent clients exist for purposes of investigation and detection of alleged infringements; plaintiff employs a consultant who uses one

such proprietary BitTorrent client that “mimics a user willing to act as a source of data, but no actual transfer takes place....” See Technical Report, attached as an Exhibit C hereto.

36. In other words, plaintiff’s proprietary BitTorrent client only seems to act as an ordinary BitTorrent client — we are able to download pieces for investigatory purposes, but we do not further perpetuate the illegal file sharing by the Swarm.

37. That being said, the Swarm is what has made BitTorrent incredibly popular; since no single user is burdened with uploading an entire file to a single user, download speeds are much faster than earlier technologies where a single user shared to a single user.

38. Even despite the increased speed permitted by BitTorrent, downloading a very large file such as a feature length movie could take hours, or even days; it all depends on the number of users sharing the file, and whether their computers are connected.

THE INFRINGEMENTS AT ISSUE

39. Plaintiff Headhunter employs a consultant for the purpose of stopping internet piracy.

40. As part of the investigatory process, the consultant uses its proprietary download-only BitTorrent client to track BitTorrent traffic of the Plaintiff’s works.

41. The consultant notes and records the IP addresses of all individuals from which infringing material is received.

42. During the period beginning on or about June 6, 2017, and continuing through June 17, 2017, plaintiff’s consultant did receive one or more pieces of a Torrent bearing the descriptive title *A.Family.Man.2017.720p.WEB-*

DL.999MB.ShAaNiG.mkv, with assigned Hash value

BoA26C6F9B646539D06D0763787FF56737FA3948 from each defendant's IP address.

43. On the date in question, the film *A Family Man* was not yet available for viewing, in any format except promotional video-on-demand.
44. The illicit sharing of the film, therefore, directly interferes with Plaintiff's exclusive right to market, distribute, and profit from the display of this motion picture.
45. In other words, each defendant is a pirate with no regard for the value of intellectual property.
46. Using geolocation technology, the consultant identified the city, county, and state of each infringer, as well as their ISP; based on that geolocation technology, plaintiff believes to a very high certainty that the IP addresses can be traced to physical locations within the Eastern District of Pennsylvania.

DIRECT COPYRIGHT INFRINGEMENT

47. Plaintiff herein reiterates paragraphs 1 through 46, and incorporates them by reference as if more fully set forth at length.
48. Each defendant did, and without the permission or consent of plaintiff, copied and distributed plaintiff's motion picture through a public BitTorrent network by transmitting the film in the BitTorrent file identified as Hash value *BoA26C6F9B646539D06D0763787FF56737FA3948*.
49. Defendants' actions infringed plaintiff's exclusive rights under the Copyright Act.
50. The conduct of the defendants has been willful, intentional, in disregard of and indifferent to plaintiff's rights with the intent to cause plaintiff harm.

REQUESTED RELIEF

51. As a direct and proximate result of the defendant's conduct, plaintiff's exclusive rights under 17 U.S.C. § 106 have been violated.
52. Plaintiff is entitled to an award of statutory damages pursuant to 17 U.S.C. § 504.
53. Plaintiff is entitled to an award of its costs, expenses and reasonable attorney fees pursuant to 17 U.S.C. § 505.
54. The conduct of the defendants is causing and, unless enjoined and restrained by this Court, will continue to cause plaintiff great and irreparable injury.
55. Pursuant to 17 U.S.C. §§ 502 and 503, plaintiff is entitled to injunctive relief prohibiting the defendant from further contributing to the infringement of plaintiff's copyrights, the economy of piracy, and ordering that the defendant destroy all copies of the motion picture made in violation of plaintiff's rights.

WHEREFORE, plaintiff prays for judgment against each defendant as follows:

- A. For entry of permanent injunction enjoining each defendant from direct, indirect or contributory infringement of plaintiff's rights, including without limitation by using the internet to reproduce or copy plaintiff's motion picture, to distribute plaintiff's motion picture, or to make plaintiff's motion picture available for distribution to the public, except pursuant to a lawful license or with the express authority of plaintiff; further directing defendant to destroy all unauthorized copies of plaintiff's motion picture;
- B. For entry of permanent injunction enjoining each defendant from supporting the BitTorrent economy of piracy by enjoining the

defendant from direct, indirect or contributory infringing file sharing
in violation of U.S. copyright law;

C. For and award of statutory damages pursuant to 17 U.S.C. § 504;

D. For plaintiff's reasonable costs and attorney fees pursuant to 17 U.S.C.
§ 505; and

E. For such other and further relief as the Court deems proper.

DATED _____

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DEMAND FOR JURY TRIAL

Pursuant to Rule 38 of the Federal Rules of Civil Procedure, plaintiff demands a trial
by jury.

EXHIBIT A

Privacy Act Notice: Sections 408-410 of title 17 of the *United States Code* authorize the Copyright Office to collect the personally identifying information requested on this form in order to process the application for copyright registration. By providing this information you are agreeing to routine uses of the information that include publication to give legal notice of your copyright claim as required by 17 U.S.C. §705. It will appear in the Office's online catalog. If you do not provide the information requested, registration may be refused or delayed, and you may not be entitled to certain relief, remedies, and benefits under the copyright law.

PA P
EFFECTIVE DATE OF REGISTRATION
Month Day Year

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

1 TITLE OF THIS WORK ▼
A Family Man

PREVIOUS OR ALTERNATIVE TITLES ▼
The Headhunter's Calling/Confessions of a Headhunter

NATURE OF THIS WORK ▼ See instructions
Original Motion Picture

2 a NAME OF AUTHOR ▼ Headhunter, LLC

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?
 Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
OR { Citizen of _____
Domiciled in United States

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Entire Motion Picture Briefly describe nature of material created by this author in which copyright is claimed. ▼

NOTE
Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

b NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?
 Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
OR { Citizen of _____
Domiciled in _____

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼

c NAME OF AUTHOR ▼

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?
 Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
OR { Citizen of _____
Domiciled in _____

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
Anonymous? Yes No
Pseudonymous? Yes No

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼

3 a YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED This information must be given in all cases. 2016 Year

b DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR WORK Complete this information ONLY if this work has been published. Month _____ Day _____ Year _____ Nation

4 COPYRIGHT CLAIMANT(S) Name and address must be given even if the claimant is the same as the author given in space 2. ▼
Headhunter, LLC
116 N. Robertson Blvd., Suite 200
Los Angeles, CA 90048

TRANSFER If the claimant(s) named here in space 4 is (are) different from the author(s) named in space 2, give a brief statement of how the claimant(s) obtained ownership of the copyright. ▼

DO NOT WRITE HERE OFFICE USE ONLY

APPLICATION RECEIVED _____

ONE DEPOSIT RECEIVED _____

TWO DEPOSITS RECEIVED _____

FUNDS RECEIVED _____

EXHIBIT 1

See instructions before completing this space.

EXAMINED BY

FORM PA

CHECKED BY

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

PREVIOUS REGISTRATION Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office?

Yes No If your answer is "Yes," why is another registration being sought? (Check appropriate box.) ▼ If your answer is No, do not check box A, B, or C.

- a. This is the first published edition of a work previously registered in unpublished form.
- b. This is the first application submitted by this author as copyright claimant.
- c. This is a changed version of the work, as shown by space 6 on this application.

If your answer is "Yes," give: Previous Registration Number ▼ Year of Registration ▼

5

DERIVATIVE WORK OR COMPILATION Complete both space 6a and 6b for a derivative work; complete only 6b for a compilation.

Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

Motion Picture Screenplay

a 6

See instructions before completing this space.

Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

Cinematographic material including performance and all audio and visual elements

b

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account.

Name ▼ Account Number ▼

a 7

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/Zip ▼

Michael A. Hierl, Hughes Socol Piers Resnick & Dym, Ltd.
Three First National Plaza, 70 W. Madison Street, Suite 4000, Chicago, IL 60602

b

Area code and daytime telephone number (312) 604-2678

Fax number (312) 604-2679

Email mhierl@hsplegal.com

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check only one ▶

- author
- other copyright claimant
- owner of exclusive right(s)
- authorized agent of Headhunter, LLC

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

8

Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Michael A. Hierl

Date January 23, 2017

Handwritten signature (X) ▼

x

Certificate will be mailed in window envelope to this address:

Name ▼	Headhunter, LLC
Number/Street/Apt ▼	116 N. Robertson Blvd., Suite 200
City/State/Zip ▼	Los Angeles, CA 90048, ATTN: Michael Wickstrom

YOU MUST:

- Complete all necessary spaces
- Sign your application in space 8

SEND ALL 3 ELEMENTS IN THE SAME PACKAGE:

1. Application form
2. Nonrefundable filing fee in check or money order payable to Register of Copyrights
3. Deposit material

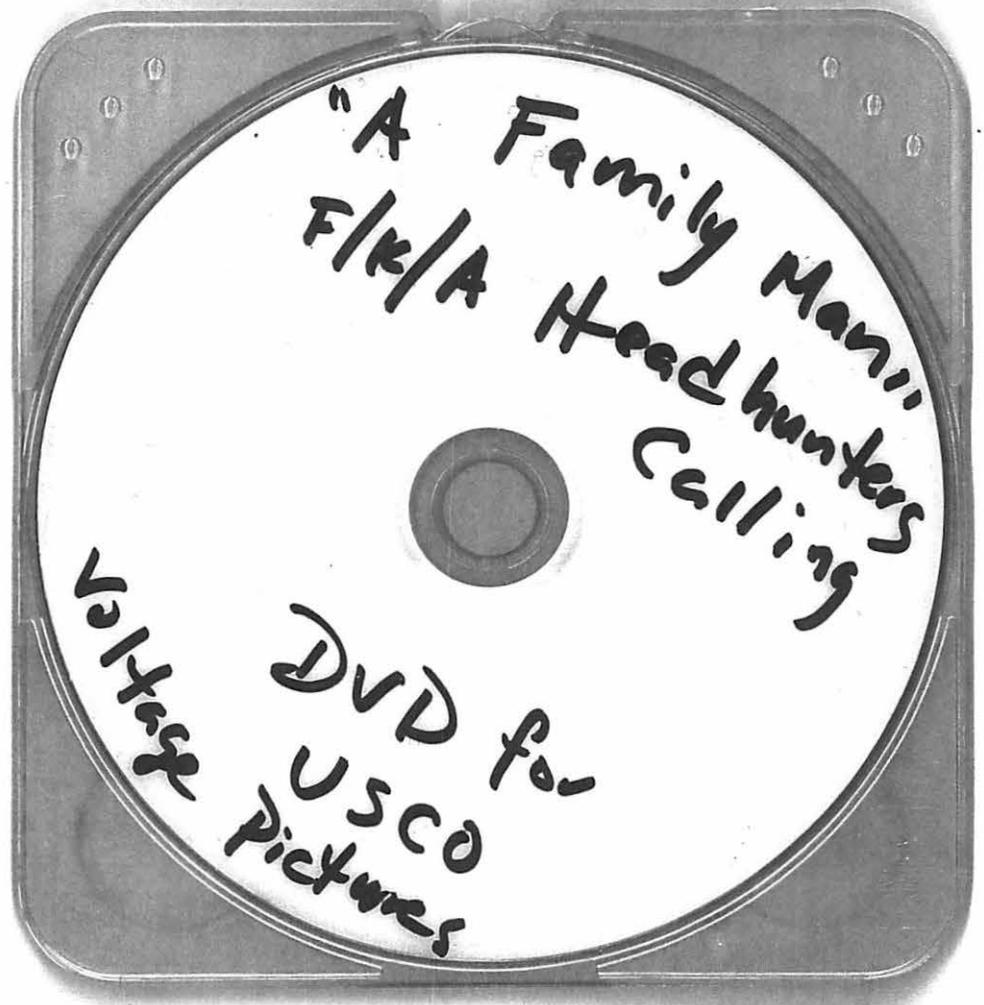
MAIL TO:

Library of Congress
Copyright Office-PAD
101 Independence Avenue SE
Washington, DC 20559-6230

9

EXHIBIT 1

*17 U.S.C. §506(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection with the application, shall be fined not more than \$2,500.



Copyright

United States Copyright Office

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Public Catalog

Copyright Catalog (1978 to present)

Search Request: Author = Headhunter, LLC

Search Results: Displaying 1 of 4 entries



Labeled View

THE HEADHUNTER'S CALLING.

Type of Work: Dramatic Work and Music; or Choreography

Registration Number / Date: TXu001967832 / 2015-10-16

Application Title: THE HEADHUNTER'S CALLING.

Title: THE HEADHUNTER'S CALLING.

Description: Electronic file (eService)

Copyright Claimant: Headhunter, LLC, Transfer: By written agreement. Address: 116 N. Robertson Blvd., Suite 200, Los Angeles, CA, 90048, United States.

Date of Creation: 2015

Authorship on Application: BILL DUBUQUE; Citizenship: United States. Authorship: text.

Rights and Permissions: Irene Flores, Eisner Jaffe, 9601 Wilshire Blvd Suite 700, c/o Eisner Jaffe, Beverly Hills, CA, 90210, United States, (310) 855-3200, (310) 855-3200, iflores@eisnerlaw.com

Names: [DUBUQUE, BILL](#)

[Headhunter, LLC](#)



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EXHIBIT B

No	IP	Port	Client	Hit Date UTC	File Name	File Hash	City	Province
1	73.188.179.118	6881	libtorrent 1.1.0	2017-06-17 21:25:48	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Feasterville-Trevoise	Bucks
2	71.230.116.16	6881	libtorrent 1.1.0	2017-06-15 19:45:41	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Philadelphia	Delaware
3	76.98.229.243	6881	libtorrent 1.1.0	2017-06-14 06:41:41	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Philadelphia	Delaware
4	68.82.156.8	37493	libtorrent 1.1.0	2017-06-14 02:48:27	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Philadelphia	Delaware
5	69.242.55.241	50321	[unknown Client]	2017-06-13 20:48:21	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Pottstown	Chester
6	73.233.111.120	6881	libtorrent 1.1.0	2017-06-13 03:51:29	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Philadelphia	Delaware
7	73.233.24.136	50322	[unknown Client]	2017-06-13 00:26:43	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Havertown	Delaware
8	73.130.155.31	6882	libtorrent 1.1.0	2017-06-11 01:44:04	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Reading	Berks
9	68.82.178.151	6881	libtorrent 1.1.0	2017-06-06 20:49:49	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Philadelphia	Delaware
10	69.249.19.210	44662	[unknown Client]	2017-06-06 15:14:08	A.Family.Man.2017.720p.WEB-DL.999MB.ShAaNiG.mkv	SHA1: B0A26C6F9B646539D06D0763787FF56737FA3948	Philadelphia	Delaware

EXHIBIT C

SACHVERSTÄNDIGEN-BÜRO FÜR COMPUTERWESEN
PROF. DR. PAUSCH & PARTNER

Büro Darmstadt: 64289 Darmstadt, Heinheimer Strasse 38
Tel: 06151/9712640 Fax: 06151/9712641
Büro Kassel: 34277 Fuldabrück, An der Röthe 10
Tel: 0561/95339100 Fax: 0561/95339101
Büro Grünstadt: 67310 Hetteneidelheim, Im Park 9
Tel: 06351/1359000 Fax: 06351/1359001
Büro Pegnitz: 91257 Pegnitz, Reisach 16
Tel: 09241/7359000 Fax: 09241/7359001
Büro Wiesbaden: 65197 Wiesbaden, Geschwister-Scholl-Str. 26
Tel/Fax: 0611/2046273
Office Sydney (G+R IT-Experts): Level 6, Spring Street, 2000 Sydney NSW
Phone: 02 82960492 Fax: 02 82960411

Report 140222/02

Evaluation of the System *MaverikMonitor*

On behalf of

Maverickeye UG (haftungsbeschränkt)
Herrn Yanick Gabriel
Heilbronner Straße 150
70191 Stuttgart

Expert witness

Dr. Simone Richter

von der Industrie-und Handelskammer Darmstadt
öffentlich bestellte und vereidigte Sachverständige
für das Sachgebiet Systeme und Anwendungen
der Informationsverarbeitung

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This work is copyrighted by the owner. Each use, modification, public display, translation or duplication of any kind of method requires the written permit of the author.

Data Privacy Declaration:

All information that were received for the purpose of preparing this report are stored on digital media. They will solely be used for the intended purpose described in this report.

1. **Introduction**

- 1.1 I was engaged as an expert by Maverikeye UG (haftungsbeschränkt) represented by Mr Yanik Gabriel, Heilbronner Straße 150, D-70191 Stuttgart, Germany.
- 1.2 I acknowledge that I have read, understood and complied with Practice Note CM7.
- 1.3 A copy of my CV may be found at appendix A of this report.

2. **Instructions**

- 2.1 My instructions were to provide answers to the questions set out below in relation to:
 - (a) the software program known as Maverik Monitor Version 1.47 (**Software**); and
 - (b) a system which monitors, detects and stores information in respect of data transfers of copyright material on the BitTorrent network of which the Software forms a part (**System**).
- 2.2 The questions which I was instructed to answer are:
 - (a) Is the Software capable of accurately detecting and recording copies of data being shared from a Subscriber's IP Address taking place on BitTorrent networks?
 - (b) How does the System function?
 - (i) Is there likelihood for erroneous information to be recorded by the Software?
 - (ii) Can the information recorded by the Software be manipulated by a user?
 - (iii) When the System engages in a BitTorrent transaction with a remote computer, is the System able to accurately record the IP address of the remote computer with the date and time?
 - (iv) What is the link between hash value and IP address, and does the System record this information accurately?
 - (v) What procedures are in place to ensure that the IP address recorded was allocated to the correct Subscriber at the time of the alleged copyright infringement?
 - (vi) What is the 'anti-leech mod' and how does it affect the System's reliability?
 - (vii) What are dynamic IP addresses and what effect (if any) do these have on the accuracy of the information recorded by the System?
 - (viii) What are hash collisions and how do they affect the accuracy of the information recorded by the System?
 - (c) Does the System download from a source computer the full file?

3. **Source of Information and Scope of Work**

- 3.1 In preparing this report, I have reviewed and relied upon:
- (a) user documentation for the Software (**User Documentation**);
 - (b) the source code for the Software;
 - (c) my visual inspection at one of the data centers where the System's information is gathered and stored; and
 - (d) the test results from the physical test conducted between 16 and 20 January 2014, to test whether or not the System was capable of detecting distribution of a known data set being five different movie files using the BitTorrent protocol.
- 3.2 For the purpose of this report, I have accepted the information provided to me as accurate, unless otherwise stated.
- 3.3 I worked independently in my analysis of the Software and the System as laid out in the in deriving my opinion set out in this report.
- 3.4 My opinions are based wholly or substantially on the specialised knowledge set out in my CV at Annexure "A" to this report.
- 3.5 I do not express any opinion about the accuracy of the information provided to me upon which my findings are based. The conclusions in this report depend upon the accuracy of that information.
- 3.6 If any information I have relied upon is found to be inaccurate or incomplete, or further information is provided to me, I reserve the right to revisit my findings.
- 3.7 This report makes use of technical terminology, an explanation of which is set out at paragraph 6 of this report.

4. **Assumed Facts and Limitations**

- 4.1 The NTP servers used by the System to calibrate its internal clock for the purpose of logging the date and time of alleged infringements are correct. The NTP servers are provided by local authorities and, as such, are trusted to distribute accurate time signals.
- 4.2 The hash value creation protocol for the copyrighted work and its sub-pieces is correct. As demonstrated with the five test files distributed over the BitTorrent Network.

5. **Summary of Findings**

- 5.1 In my examination of the System, I found that:
- (a) it is capable of monitoring traffic on the BitTorrent network;

- (b) it identifies the IP addresses of users and records the time of the data transfer accurately. This information enables ISPs to identify the Subscriber whose internet connection was used to conduct the alleged copyright infringement;
- (c) The System implements mechanisms to ensure that no erroneous IP addresses are collected by the System.
- (d) The System establishes connections with remote computers and receives and stores pieces of data from those computers which make content available across the BitTorrent network.
- (e) The received pieces of data are compared to a control copy using hash value comparison. If the hash value of the piece of data downloaded from the source is the same as the control copy, then the received pieces of data and the control copy are considered to be identical.
- (f) Dynamic IP addresses have no influence on the accuracy of the System logging and recording IP addresses and associated time stamp of infringement.
- (g) If the source computer's IP address changes during capture of a data transfer, no data is saved by the System, and therefore not used by Maverickeye UG.

6. Terminology

- 6.1 This report makes use of technical terminology. The technical terms used in this report are set out below.

BitTorrent

- 6.2 The BitTorrent network is a type of peer-to-peer network. Peer-to-peer networks are a conglomerate of computers that link together to share information, files or data with one another through the use of specialised software (**P2P Network**). The users or computers on a P2P Network can either receive or send information, files or data to other computers (or undertake both functions simultaneously).
- 6.3 On P2P Networks, a connection is established between the users of the network who are online at the time. Each participating computer can perform both the function of a "client" (i.e. the receiving or downloading computer) and that of a "server" (i.e. the sending or host computer). The computers can then both send data to, and receive it from, each other's computers. The data is exchanged directly between the participating computers and is never stored in a centralised place. The data distributed may have various origins, but data exchange takes place exclusively between two individual computer systems.
- 6.4 Users need to take active steps to set up and install software to enable participation in the P2P Network. These steps cannot be 'accidently' or inadvertently undertaken by a user. Any user wishing to participate in file sharing needs to install or actively start specialised software known as a BitTorrent client (**BitTorrent Client**). In order to do so, a user will need to download a

BitTorrent Client from a website that distributes BitTorrent clients. As part of the installation process, a user may configure the BitTorrent Client in accordance with his or her preferences, or adopt standard settings. A BitTorrent Client enables users to access a given P2P Network, such as eDonkey or BitTorrent. Some examples of BitTorrent Clients for the BitTorrent network include Azureus, BitComet and UT.

- 6.5 Once a user has installed the BitTorrent Client, the user may have an option to specify what is called the user's 'shared files' folder (**Shared Folder**) in which the user may place any files. Files placed in the Shared Folder are made available and may be distributed to other users requesting that file.
- 6.6 A user will then need to conduct a search of torrent files related to the data he or she wishes to acquire. Such data often includes copyrighted works such as films, television shows and music. Websites such as "The Pirate Bay" may be used to search for and obtain the relevant torrent files, as they offer torrent files and magnet links for download. The user then needs to download those torrent files and open them in their BitTorrent Client.
- 6.7 The BitTorrent network splits or separates a complete file, being for example, a movie or song (**Complete Data Set**) into pieces to enable efficient distribution to participants. Those pieces may be further broken down into sub pieces. When those pieces are reassembled, they constitute the Complete Data Set.
- 6.8 Once a user opens the torrent file in their BitTorrent Client, the BitTorrent Client queries the peers to which it is connected in order to ascertain which pieces of the Complete Data Set those peers have available to download. Some peers will have the Complete Data Set, and are known as "seeders" (**Seeders**). Other peers may have less than the whole file because they are still in the process of downloading it, but they will still be able to share the pieces that they have.
- 6.9 Over the time of downloading the Complete Data Set, pieces are requested and received by the BitTorrent Client from various other peers and are ultimately assembled together like a large jigsaw into the Complete Data Set. If, for example, the Complete Data Set is a film file, the film file will at this stage be in a state in which a user can view it.

IP address

- 6.10 An Internet Protocol (**IP**) address is an address which identifies a computer within an IP network. It is comparable to a postal address in the sense that it enables computers to exchange data with each other. The commonly used "IPv4" address consists of four numbers (values 0-255) separated by a dot. In computer terms it is a 32 bit large binary number.
- 6.11 There are more computers connected to the internet than available IPv4 addresses. To ensure that the information sent from another computer reaches the correct addressee, a dedicated technology is used called "Network Address Translation" (**NAT**).

- 6.12 Using NAT, an internet access point has at least one worldwide unique IP address. The internet access point is often a router or a digital subscriber line (DSL) access point. This type of equipment is used to connect computers within an internal network. They are commonly found within households or businesses.
- 6.13 Each device connected to the internal network may have its own IP address assigned by a router. In circumstances where an internal network is present, the IP address logged by the Software will identify subscriber's internet access point only. That is, the IP address assigned to the router or DLS access point to which a number of computers can be identified.
- 6.14 It is not possible to determine if an internal network is present unless inquiries are made with the internet connection owner. There could very well be one computer connected to the router.

Dynamic IP address

- 6.15 An Internet Service Provider (ISP) has control of a large number of IP addresses. It assigns IP addresses to its account holders (Subscribers) in order to provide internet connections. An internet connection cannot function without an IP address.
- 6.16 The ISP may have more Subscribers than they control IP addresses. If this is the case, it may not assign fixed static IP addresses to its Subscribers.
- 6.17 An ISP may assign 'dynamic' IP addresses to its Subscribers. A dynamic IP address is only assigned for a limited time period. This period may vary from ISP to ISP. The time period could be up to six months or more and is dependent on each ISP's own internal policy.
- 6.18 Due to the nature of dynamic IP addresses, in order for ISPs to identify Subscribers from data logged by the System, two data points must be known: time of the data transfer and the associated IP address. Using this information, an ISP may cross-reference IP address, date and time with its Subscriber database.

Hash Values

- 6.19 An algorithm that correlates data of variable length to data of a fixed length is called a hash function. The value returned by the function is a hash value.
- 6.20 Two different sets of data may be compared using hash values. They are commonly referred to as digital fingerprints. They allow large quantities of data to be represented by a relatively small number of bytes. The determination of a hash value of a data set and the comparison of two hash values is more efficient than a byte-wise comparison of two files. The System uses hash value comparison to determine if two sets of data are identical.
- 6.21 For example, two different movies will have two different hash values. Furthermore, every piece of the movie will also have its own hash value.
- 6.22 There are various methods used to calculate hash values. The most commonly used hash value calculation method is called MD5. This method is known to have a mathematical "defect".

There is a possibility of creating the same hash value for two different sets of input data. If this occurs one calls this a hash collision. This method is not used by the System.

- 6.23 The second most applied method is called SHA-1. It is theoretically vulnerable to hash collisions, but so far there is no method known to create a hash collision. The method known to be collision free is called SHA-512 and the third most commonly used.
- 6.24 The P2P Network allocates a hash value to each file that is made available for sharing, so it can easily be identified by the P2P Network participants.
- 6.25 The System uses the SHA-1 and SHA-512 methods. The System uses SHA-1 as BitTorrent uses this to identify data. SHA-512 is used internally by the System to verify the downloaded sub-pieces against a control copy of data.
- 6.26 The Software uses hash value comparison to determine if two sets of data are identical. Accordingly, if two SHA-1 or SHA-512 hash values are the same, the data compared is said to be identical.

NTP Servers

- 6.27 A Network Time Protocol (**NTP**) server, or NTP Stratum-1 servers, is a networking protocol which synchronises all computers on an NTP server to within a few milliseconds by reference to Coordinated Universal Time (**UTC**), which is the primary time standard by which the world regulates clocks and times.
- 6.28 There are difference sources for UTC, such as the Global Positioning System and WWV, a radio station which continuously transmits official U.S. Government frequency and time signals. Both of these sources of UTC provide accurate time.

Module

- 6.29 A module is a part of a computer program which carries out a specific function and may be used along or in combination with other modules in the same program.

Data Structure

- 6.30 A data structure is the location where data is stored in a program. There are several different types of data structures which are capable of storing different types of data. If the data structure is not created for a particular type of data, then it will be unable to store that data.

Transport Control Protocol/Internet Protocol

- 6.31 The IP address attributes to a computer a unique reference number. By this number a computer is identified. The IP does not facilitate the transfer of data itself; therefore the Transport Control Protocol (**TCP**) was invented. It is a set of rules used along with the IP to send data in the form of message units between computers over the Internet.

7. Method of Work

- 7.1 I examined and reviewed the User Documentation of the Software and the complete source code of the Software, line by line, and the scripts therein. In addition I set up files within the BitTorrent network to be shared and downloaded by various users to determine if:
- (a) the System accurately monitors BitTorrent traffic;
 - (b) the System's BitTorrent Client initiates a TCP connection with the source computers (as explained in paragraph 8.2 below);
 - (c) the System accurately captures the IP address, together with time stamp and the port number used by the source computer when a data transfer between the Software and source computer is successful;
 - (d) the System records the hash value of the data received from the source computer; and
 - (e) the System accurately calculates the hash value of the sub-piece received from the source computer for the purposes of conducting a comparison with it and the reference file (a copy of the data set known to be a complete copy of the copyrighted work made available on BitTorrent networks).
- 7.2 I analyzed the source code of the Software line-by-line in order to ascertain:
- (a) the way in which data identified by the Software is processed;
 - (b) the correctness of the various Data Structures containing the data identified; and
 - (c) whether it correctly stores the data in the Data Structures and extracts the correct information from the data structures to ensure proper identification and comparison of hash values.
- 7.3 Finally, I examined the source code of the Software to evaluate the consequences of potential errors, including:
- (a) buffer overflows, which occur when data is being stored in the Software's module to capture amongst others the data set of IP-addresses, date, time and duration of the possible copyright infringements and the capacity to store the data is exceeded;
 - (b) wrong variable handling, which can occur, for example, when the Software is expecting a variable (i.e. a location where temporary data is stored) to contain an integer number but instead it contains a string of text and is therefore unable to process the variable; and
 - (c) logical errors resulting from bugs which cause the Software to operate incorrectly and produces an unintended or undesired output.

8. **Live Tests performed in the BitTorrent Network to test the System**

- 8.1 I was asked by Maverickeye UG to test the System for accuracy by distributing Complete Data Sets using the BitTorrent Network. The purpose of this test was to conclude whether or not the System was capable of detecting distribution of a known Complete Data Set using the BitTorrent protocol.
- 8.2 This test was designed to be a real life test which allowed different users or peers to share data with the System.
- 8.3 I was given permission by the copyright owners of the Complete Data Sets distributed in the live scenario to use the Complete Data Sets in the tests described below.

9. **Test implementation**

- 9.1 I informed Maverickeye UG of the time period that the tests would take place. I did so to ensure that Maverickeye's System was in operation during the time required to conduct the test. I also informed Maverickeye UG of the names of the files I was using as part of the test, so they would know which files to search for. I did not inform Maverickeye the precise point in time the downloading/uploading of the Complete Data Sets would occur. The test was performed between January 16th and 20th 2014 (**Test Period**).
- 9.2 In undertaking the test, I completed the following steps.
- 9.3 First, I uploaded four Complete Data Sets to my desktop computer. The Complete Data Sets used in the test were the following files:
- (a) prepare-loopdevices.exe, being an executable file (i.e. software that causes a computer to perform tasks);
 - (b) AVI_0002.AVI, being a file containing both audio and video data;
 - (c) AVI_0004.AVI, being a file containing both audio and video data; and
 - (d) Vorlesungen.zip, being a compressed file containing multiple pdf files.
- (together **Test Data Sets**)
- 9.4 Second, I created a torrent file in respect of each of the files in the Test Data Sets using the following BitTorrent clients:
- (a) μ Torrent version 3.3.2;
 - (b) KTorrent version 4.2.0 and 4.3.1; and
 - (c) Transmission version 2.82.

9.5 When creating the torrent files, I had to include a tracker address. The tracker address is what announces that the file is being made available and can be accessed by those using the BitTorrent network.

9.6 The trackers used for each of torrent files are set out below:

udp://tracker.openbittorrent.com:80/announce

udp://tracker.publicbt.com:80/announce

9.7 Third, during the Test Period, I used two mobile devices, named Samsung Mobile Device 1 and Samsung Mobile Device 2, to download the torrent files for each of the files in the Test Data Sets. Both of these devices are Samsung Tablets and each have internet connections provided by different ISPs and each have different IP addresses.

9.8 At the time of each download on each of the Samsung Tablets, I noted down the following information:

(a) the device being used, that is Samsung Mobile Device 1 or Samsung Mobile Device 2;

(b) the particular file being downloaded, e.g. prepare-loopdevices.exe;

(c) the IP Address of the device being used to download the file;

(d) the date on which the download commenced; and

(e) the time at which the download commenced.

A copy of the information that I have noted down in respect of the data transfers is set out in Schedule 2 to this Report.

9.9 I ascertained the date and time of the commencement of the download by monitoring my BitTorrent Client and noting the time at which the download appeared to commence on the BitTorrent Client.

9.10 I ascertained the IP address of each device by going into the settings of each device, where the IP address of the device is stated.

9.11 I was aware of each of the ISP providing the internet connection for each of the Samsung tablets, because I contracted with each ISP in relation to each device. In any event, using the IP address, it is possible to perform an internet search to obtain the ISP which owns the IP address.

9.12 After the termination of the test, Maverickeye UG provided me with an extract from their database, which had detected and stored information in respect of the data transfers which occurred during the Test Period.

9.13 I then compared the information I had noted down about the data transfers, with the information extracted from Maverickeye UG's databases.

- 9.14 An example extract of the System's database provided to me by Maverickeye UG is set out below. This extract is the information obtained by Maverickeye UG in relation one download by a user of the prepare-loopdevices.exe file. Each second line gives a short explanation of the meaning of the database entries.

ExportId	4771520570
	Unique number assigned automatically by the System
ExportTs	2014-01-16 16:44:22
	Timestamp of the export into the System's database
ClientinformationId	11313558141
	Unique number assigned to the user
Date	2014-01-16
	Date of the data transfer
Time	15:32:32
	Time of the data transfer
ClientProto	Bt
	Name of the protocol used in the data transfer. Bt means BitTorrent Protocol.
ClientIp	109.85.95.91
	IP Address of the user downloading the file
ClientPort	55980
	Port number used for the data transfer
ClientDhtPort	6881
	Special Port number used within the data transfer
ClientUserName	
	The username of the particular user with their ISP (unknown by Maverickeye UG)
ClientUserHash	2D4241333330302D9676CEC37D543F1A69838FD6
	Hash value
ClientVersion	-BA3300-
	Version of the Bit Torrent Client used
FileName	prepare-loopdevices.exe
	Name of the downloaded file
TrackName	prepare-loopdevices.exe
	Name of the part of the downloaded file
FileHash	8AAE50E22398E28AC4F20E5460A312B95E693F3A
	Hash value identifying the file
FileSize	16683
	Size of the file in bytes
BtBitField	0
	Value indicating the piece to download
Geoplsp	Vodafone D2 GmbH
	Name of the Internet Service Provider (ISP)

GeolpOrg	
	Information about the ISP
GeolpCity	Andernach
	City where the ISP is located
GeolpZip	
	Post code of the city where the ISP is located
GeolpCountry	DE
	Country where the ISP is located. DE means Germany.
GeolpRegion	Rheinland-Pfalz
	Further information about the location of the ISP
GeolpLon	7.4
	Geographical coordinates of the ISP location
GeolpLat	50.4333
	Geographical coordinates of the ISP location
SessionStart	16/01/2014 3:31:58 PM
	Date and Time of the start of the detection of the download (UTC)
SessionEnd	16/01/2014 3:33:34 PM
	Date and Time of the end of the detection of the download (UTC)
TransferStart	16/01/2014 3:32:31 PM
	Date and Time of the end of the transfer (UTC)
TransferEnd	16/01/2014 3:32:32 PM
	Date and Time of the end of the transfer (UTC)
SessionDuration	96
	Duration of the session in seconds
LoggerId	clientng13
	Unique number of the logging process
LoggerIp	787014805
	IP number of the logging computer
LoggerCountry	DE
	Country where the logging computer is located
LoggerLon	8,4287
	Geographical coordinates of the logger's location
LoggerLat	49,0019
	Geographical coordinates of the logger's location
TotalPeers	0
	Number of additional peers
UniqTs	2014011615
	Another time stamp indicating the beginning of activity within the program. e.g. 16 Jan 2014 at 3pm (being 1500 hours).
RelatedTitleId	6467
	Internal unique number identifying the file
OwnerId	3668
	Internal unique number identifying the owner of the file

VerifyPartOk	YES
	Indicates whether the comparison of the data against a control copy was fine
ExporterVersion	2.5
	Version number of the Module forming part of the System used to export the data into the secure database
ExporterBinCRC32	c0dcf654
	The value assigned by a cyclic redundancy check ¹ to the data transferred to the database. Upon retrieval of the data from the database, the cyclic redundancy check is repeated and if the two values match, then it can be assumed that the data is correct and has not been corrupted.

9.15 The System database extracts provided to me by Maverikeye UG are set out at Schedule 3 to this Report. These extracts set out all of the downloads of the Test Data Sets during the Test Period.

9.16 The data shown in the table above is extracted from row 5 of the file "6467 – Prepare-loopdevices.xls" of Schedule 3. This data correlates with the data I noted down in Schedule 2 at the tab titled "Prepare-loopdevices", that is, the ISP name, IP address, data and times of distribution correctly matched.

9.17 I can verify that the information that I noted down in Schedule 2 correlates with the data provided to me by Maverikeye UG.

9.18 It is my conclusion that the System is able to accurately detect data transfers on the BitTorrent network when deployed to do so.

10. Inspection of the data center

10.1 I visited the data center where the System was running.

10.2 The purpose of my visit was to check that data was stored securely and could not be tampered with. From my inspection, I am confident that the safety measures put in place provide sufficient security to ensure that the data collected by the System is secure.

10.3 I also confirm that write once read many (**WORM**) tape drives are used to store data collected by the System in a secure manner. WORM technology provides non-editable data storage such that any data stored by the System cannot be altered, overwritten or corrupted.

11. Answers to the Questions

11.1 The opinions set out below are based wholly or substantially on the specialised knowledge referred to in appendix A.

¹ Mathematical method developed by W. Wesley Peterson, 1961.

Is the Software capable of accurately detecting and recording copies of data being shared from a Subscriber's IP Address taking place on BitTorrent networks?

11.2 Based on my examination of the source code presented and the tests performed, the System correctly detects and records instances of copies of data being shared from a Subscriber's IP address on the BitTorrent networks.

11.3 It accurately records the IP addresses, port numbers, time stamps and the SHA-512 hash value of the sub-pieces received by the System in a secure database.

How does the System function?

11.4 The Software consists of various modules. Each of the modules has a distinctive task including (but not limited to) tracking IP traffic, calculating hash values and recording the correct time.

11.5 When the System is initiated, it checks the operating system, interfaces, clock and memory on the computer on which the Software is installed for potential errors. If any potential errors are identified, the Software and thus the System does not function.

11.6 The System ensures that an accurate time is used by calibrating its local clock with various NTP servers. The System uses amongst others, the time signals distributed by the Physikalisch-Technische Bundesanstalt (the German national metrology institute).

11.7 The System captures all data packets being transmitted between the local BitTorrent Client and a remote one. Once the local BitTorrent Client receives information about the availability and location of distributed data, it will initiate communications with those locations.

11.8 A TCP connection is then initiated by the local BitTorrent Client in order to inform source computers that the System is interested in acquiring data. Once transfer begins, all data traffic is accurately recorded with information such as time of the data transfer, IP addresses, port numbers, and if the parties in the TCP connection wish to send or receive data. If a data transfer between the System and remote computer is successful, the IP address is logged, together with time stamp and the port number used by the source computer.

11.9 Information is logged by the System only if the TCP connection is active two seconds before and after the data transfer. This ensures that users participating in transactions for a lesser period of time are not logged. This adequately addresses the issue of a dynamic IP address changing.

11.10 The hash value of the transmitted sub-piece is also recorded by the System.

11.11 Once the connection between the System's local BitTorrent Client and the source computer is closed the data captured is transferred to a secure database. The storage medium is a write-once read only. The database is backed up once per day. The backup carries a time stamp and is secured by a digital signature.

Is there a likelihood for erroneous information to be recorded by the System?

- 11.12 It is impossible for the System to record erroneous information. The System uses the TCP protocol to establish a communication channel with source computers. By design, the connections established are valid. If a TCP connection is not initiated between the System and source computer then no data is logged.
- 11.13 The System also checks the hash values of all sub-pieces received to ensure they are part of the full file.
- 11.14 If any technical problems or errors, including those described at paragraph 7.3 above, occur during the data capture and logging process, the relevant process is terminated and data captured during that process is not transferred to the secure database. This means that all data transferred to the secure database and stored by the System is error free.

Can the information recorded by the System be manipulated by a user?

- 11.15 This may be possible in limited circumstances where an individual has access to the database and the backup files with the required security clearance and the possession of the key to the digital signature.
- 11.16 The risk of database manipulation is mitigated as the database records all access to it. Those records may be used to trace unauthorised access to the user account responsible. As an added security measure, the backup files are secured by digital signatures.
- 11.17 The System saves all network traffic between the system and the remote computer. Manipulation of this without detection is difficult to accomplish given the security measures in place.
- 11.18 I consider the above stated limited circumstances are impossible to achieve.

When the System engages in a BitTorrent transaction with a remote computer, is the System able to accurately record the IP address of the remote computer and date and time?

- 11.19 The System is able to accurately record the IP address and the associated time stamp.
- 11.20 When a remote computer offers to distribute a piece of data to the System, both parties must establish a secure end-to-end connection using the TCP/IP protocol. When a transfer takes place, the IP address of the remote computer is logged by the System.
- 11.21 NTP servers ensure that the System receives accurate time information. This allows the System to accurately calibrate its clock. The System uses its clock to produce data transfer time stamps.
- 11.22 Using an IP address and associated time stamp of the data transfer, an ISP may correctly identify the Subscriber allocated that IP address at a specific time by searching databases in its possession. Most ISPs will operate a data retention policy. This means that the information

sought may be deleted after a period of time. It is therefore important for copyright owners who allege that the data transfer captured by the System contains copyrighted material to obtain disclosure of the names and addresses behind the IP addresses before such deletion occurs.

What is the link between hash value and IP address, and does the System record this information accurately?

11.23 When a remote computer responds to the local client's request for data, the remote computer will begin to transfer a sub-piece of the requested file. This data transfer is monitored and recorded by the System. Once the complete sub-piece is received successfully by the System, a record in the database is created documenting that transaction.

11.24 The database record contains all information relating to the transaction between the System and source. That information includes the following:

- (a) IP address of the sender;
- (b) IP address of the System;
- (c) port numbers used for the transfer;
- (d) time stamps for:
 - (i) the start of the conversation;
 - (ii) the end of the conversation;
 - (iii) the start and end of the download;
- (e) the SHA-512 hash value of the data received from the source computer; and
- (f) the position of the sub-piece in the complete file.

11.25 Once the above information has been logged, a hash value comparison is initiated by the System. The hash value of the sub-piece received from the source computer is calculated and compared to the hash value of the complete data set of the copyrighted work stored in a reference file. If the hash values and positions are the same, the System establishes that the downloaded sub-piece must have been part of the copyrighted work. In my opinion, this is the correct finding to make in the circumstances.

What procedures are in place to ensure that the IP address recorded was allocated to the correct Subscriber at the time of the alleged copyright infringement?

11.26 The Subscriber may be identified with the assistance of the ISP responsible for the allocation of that IP address. Only the ISP stores this information. Without the ISP's assistance, a copyright owner cannot identify the Subscriber.

11.27 In the case of dynamic IP addresses, various Subscribers may have the same IP address – but during different time periods. This is the reason it is important that the correct time stamp is recorded accurately by the System once an infringement of copyright is detected.

11.28 To ensure a correct time stamp the System synchronizes its time with NTP servers, which allows the System to produce accurate time stamps.

11.29 Logs with more than a 10 milliseconds time difference are not exported by the Software for use as evidence in legal proceedings, as these have the possibility of introducing potential inaccurate logs into the database. This scenario is avoided altogether by rejecting such logs. In my opinion, these safety protocols ensure that the Software produces accurate time stamps.

11.30 As the System establishes a connection to the source for at least 2 seconds after the successful data transfer, the accuracy of the time stamp recorded for the data transfer is valid.

What is the 'anti-leech mod' and how does it affect the System's reliability?

11.31 Within a P2P Network, users exchange data amongst themselves. A BitTorrent Network is a type of P2P network. It relies on the willingness of all participants to share their data. If a client is not sending data it will be marked as a 'leecher'. The System does not log users known as "leechers". A leecher is a user who does not act as a data source. The System only enters into transactions with those users who engage in the distribution of data. In other words, the users logged by the System have not only made available data, but also engaged in an actual transaction with the System and has been recorded distributing a piece of the data.

11.32 In the operation of the System, the local BitTorrent Client is created in a way which ensures that it never transfers pieces of copyrighted files to other users. Instead, the client in the System mimics a user willing to act as a source of data but no actual transfer takes place. It does not affect the accuracy or reliability of data logging by the System.

What are dynamic IP addresses and what effect (if any) do these have on the accuracy of the information recorded by the System?

11.33 An explanation of dynamic IP addresses may be found in section 6. In summary, an ISP may assign an IP address to different Subscribers at different periods of time. But as the time of the data transfer is recorded accurately by the System, an ISP is able to determine which Subscriber it assigned an IP address to at a particular moment in time using the IP address and time stamp.

What are hash collisions and how do they affect the accuracy of the information recorded by the System?

11.34 A hash collision occurs when two different data sets have the same hash value. The System uses the SHA-512 method to determine the hash value of the sub-piece transferred.

11.35 There are two potential sources of hash collisions:

- (a) Trivial hash values, being:
 - (i) hash values calculated from a file containing either bit values of 0 or 1 or the same data in each block; and

(ii) bit patterns that describe the type of the file transferred.

The System checks the hash values against a blacklist and other trivial data sets. Data transfers involving these hash values are deleted by the System and are not logged.

(b) Hash collisions for the complete file and a sub-piece

The System identifies files by their name and SHA-1 hash value. It checks the value of the SHA-512 hash value of the downloaded sub-pieces against the calculated SHA-512 hash value of the reference file. To perform this calculation the position of the sub-piece must also be known. The probability of the same data of two different files being at the same place is extremely unlikely. This means that where the hash value and location match, it may be said that distribution of the relevant data set took place.

11.36 Thus, in my opinion, the System addresses the risk of trivial hash collisions and treats them correctly by not recording the transaction.

Does the System download from a source computer the full file?

11.37 The connection with a source is terminated after the System receives a sub-piece of the copyrighted work from the source. The System may connect with the same source again in relation to another sub-piece of the same work. However, the System does not acquire the whole file from a single source. This is not necessary or always possible.

11.38 However, each user does make the Complete Data Set available for download to other users. While it is possible for a user to make only one piece of the Complete Data Set available, this is extremely unlikely, as the user would need to possess highly specialised information technology skills to split a Complete Data Set into several pieces and make each piece available for download separately. This is also highly unlikely because users on the BitTorrent network are using BitTorrent network to download and make available Complete Data Sets, such as complete movies.

11.39 Users of BitTorrent networks seek to acquire various files. These may include copyrighted works such as movies, software and music. In relation to movies, the intention of a user is to acquire a full copy of a movie. It would be nonsensical to acquire only one piece, which may only be a few random seconds of the movie. When a user acquires software, it is unlikely that the software will function properly or even install if it is incomplete. A user therefore needs to acquire the Complete Data Set for the software in order to use it. Furthermore, in relation to music files, it is inconceivable that a user will only seek to acquire a random few seconds of a musical work.

11.40 BitTorrent users have little control over which pieces they acquire first. They acquire the pieces that are available and offered by other users. For these reasons, it is reasonable to say that

those wishing to acquire a file will participate in a BitTorrent network until the Complete Data Set is acquired.

11.41 A user who has acquired the Complete Data Set will continue to transmit pieces of that file to other users unless the client is instructed to stop doing so. It is not uncommon for users to continue distributing the files for long periods of time.

11.42 A user without the full data set will request the pieces it does not have from other sources. These transmissions may take place while that user is transmitting data to the System. Accordingly, the possession and distribution of a sub-piece is a very strong indication that the user is or will in the future be in the possession of the complete data set.

11.43 The reason why P2P Networks work so quickly and effectively is because different parts of a movie are obtained from different users until an entire film is downloaded. That is, when downloading a movie the user's computer may simultaneously download the movie from a number of different other peers' computers.

12. Declaration

I, Dr Simone Richter, declare that I have made all the inquiries that I believe are desirable and appropriate and that no matters of significance that I regard as relevant have, to my knowledge, been withheld from the Court.

Signature..........Date.....*2 April 2014*



Dr. Simone Richter
permanently sworn in and officially installed
expert witness for Systems and
Application of Information Technologies.
Officially supervised by the
Chamber of Commerce in Darmstadt

Appendix A

Curriculum Vitae

Name: Dr. rer. nat. Simone Richter

Born: December 13, 1969 in Berlin, Germany

Career Summary

Over the past 15 years of professional experience, I have gained extensive knowledge and expertise in the following areas:

- General and extended IT-knowledge
- Company Administration (Finance, Controlling, Human Resources, Technology Transfer, Legal, Site & Buildings, Risk Management, Quality Management, Procurement and Contracts)
- General Project Management
- Strategy Development and Deployment
- Change Management
- Technical Project Management
- Project Team Management
- ERP Project Management
- Project Evaluation
- Particle Accelerator Design and Operations

Due to my training and experience, I have specialised knowledge in all areas of I.T including computer hardware, software, data centres, networking and database management.

Since January 2003, I have provided independent expert witness testimony in Germany as an accredited I.T. expert. This accreditation is provided by the German government to individuals who demonstrate through rigorous testing, that they have the qualifications, training and experience to provide expert opinions and Court approved reports for the benefit of the Court in the field of IT.

Education / Training

2010 – Malik Master of Management, MZSG St. Gallen, Switzerland
2011

2008 – Certificate, Helmholtz-Akademie für Führungskräfte – Helmholtz
2010 Management Academy, Germany

2002 – 2005	Certificate, Medical Physics and Technics, University of Kaiserslautern, Germany
2001	Dr. rer. nat. - PhD, Technical University Darmstadt, Germany. My PhD
1996	Diploma –Master with Thesis in Physics, Technical University Darmstadt, Germany. My diploma involved writing approx. 8,000 lines of code
1988	Abitur – university-entrance diploma , Göttenbach-Gymnasium, Idar-Oberstein

Certifications and Accreditations

2009 –	Member of the Lenkungsausschuss Helmholtz-Akademie für Führungskräfte(Steering Committee of the Member of the Selection Committee for the Helmholtz-Gemeinschaft Deutscher Forschungszentren e.V. (Helmholtz Association - HGF) Mentoring Program
2009 – 2010	Elected Member of the GSI Wissenschaftlicher Ausschuss (internal scientific council)
2008 – 2010	Elected Deputy Chairwoman of the Wissenschaftlich-Technische Räte-Versammlung of Helmholtz-Gemeinschaft Deutscher Forschungszentren e.V. (HGF) (Committee of scientific-technical councils)
2006	Member of the Working Group "Strategy of the Helmholtz Gemeinschaft"
2005 – 2008	Chairwoman and Elected Member of the GSI Wissenschaftlicher Ausschuss
2004 – 2005	Member of the Internal Advisory Committee for the Definition of the Structure of the FAIR Project
2003 – 2004	Appointed Member of GSI Wissenschaftlicher Ausschuss
2003	Accreditation as expert witness (permanently sworn in as public officer) with formal knowledge examination according to German law §36 GewOo re-certified and renewed oath
2005, 2010	My involvement at the GSI's internal scientific council and later on also within the committee of scientific-technical councils at the HGF gave me the opportunity to work on the steering level of the organizations. The boards I led as chair or deputy chair are asked to give strategic advice to the managing and governing boards of the respective organizations. I gained a deep insight in decision making pro-

cesses with high profile stakeholders such as ministries or other representatives of large research organizations.

Work History

2003 – Present

In January 2003 I was formally sworn in as a public officer as an expert witness in all matters related to Information Technology. In this position, I am regularly called to provide technical expertise for Courts, public prosecuting offices and private organizations as an independent expert for the Court.

Prior to my accreditation, I was required to demonstrate my IT knowledge, by working on 10 different cases with another IT expert. After this, I was required to undertake a two day test which involved a written component in respect of General IT knowledge including hardware, software and operating systems, and then a practical component in which I was interviewed and my technical knowledge was tested by a 3 person panel. Upon passing these tests, I was recommended by the Darmstadt Chamber of Commerce to be accredited as an independent expert. Constant training is required to be re-accredited every 5 years. The chamber of commerce in Darmstadt, Germany serves as my supervising agency on behalf of the German government. Currently only approx. 140 individuals in Germany hold this accreditation.

Key Achievements

- Giving technical expertise reports and testimonies in civil court cases
- Providing IT-related expert opinions and court approved reports in private cases

General Responsibilities

- Working with judges, lawyers, plaintiff and defendant representatives to solve court cases
- Providing Companies with technical background information about IT-project statuses
- Evaluation of IT-project statuses
- Acting as public office for (IT) technical questions in and before court cases

2011 – Present **GSI Helmholtzzentrum für Schwerionenforschung GmbH; www.gsi.de**

Interims Manager

In-house Consultant and Strategic Advisor to the Administrative Managing Director

GSI GmbH as member of the German Helmholtz-Association (www.helmholtz.de) provides a heavy-ion particle accelerator as a national large-scale research infrastructure open to national and international scientists. The Helmholtz-Association is Germany's largest research organization with more

than 33.000 employees and ad yearly budget exceeding 3.4 billion €. GSI GmbH with a work force of approx. 1100 employees and a yearly budget of over150 M€/year is structured in two business units: the research and scientific and the administrative branch. I advise the Administrative Managing Director and interim manage the Organization and Controlling Division.

Key Achievements

- structuring and shaping of the Organization/Controlling Division and the Finance/Procurement Division initiating and guiding the change process for the Administration to a customer and project oriented division
- member of the task-force for Merger of GSI GmbH and FAIR GmbH
- member of the working group on the supervision of the FAIR GmbH
- interims management for the Organization/Controlling Division, coaching of the Head of the Finance and Purchasing Division, coaching of the department leader of the Patent and Technology transfer department, focusing on developing the IP-Policy
- requirements analysis for Controlling and Business Intelligence System.

General Responsibilities

- ensuring the process set-up for company-wide processes like budgeting, quality management, project management
- giving expertise on all FAIR related issues like in-kind contributions, project steering and control, reporting, and merging of FAIR with GSI
- giving expert advice to the CFO and the CEO of GSI

**2010 – 2011 Facility for Antiproton and Ion Research in Europe GmbH (FAIR GmbH),
www.fair-center.org Administrative Managing Director, CFO.**

- The FAIR project represented by the FAIR GmbH is currently the largest European Research Project under construction. Its estimated cost to completion is 1.6 billion€, the envisaged start of operation is 2018.
- FAIR GmbH was founded under the umbrella of multinational treaty – The FAIR Convention. So far there are eight signatory countries to the Convention (Finland, France, Germany, India, Poland, Russia, Slovenia, and Sweden) and Spain expected to sign soon. The signatory countries are represented in the shareholders assembly through their respective nominated shareholders. For Germany the GSI GmbH is the major shareholder of FAIR. Shareholders contribute to the facility either in cash or in-kind. The FAIR accelerator facility complex will provide to more than 3000 scientists high precision heavy ion and antiproton beams at various experimental stations.

Key Achievements

- bringing the company into operation

- shaping the companies organization, structure and major processes
- shaping and setting up the administration business unit including the site & buildings division
- major contracts – site & buildings, business management contract with GSI GmbH, in kind contracts

General responsibilities

- full personal liability for the company's assets
- reporting to the shareholders assembly
- liaisons to shareholders, ministries and other stakeholders of FAIR
- liaisons to local authorities and the public bringing up a fully-fledged research facility – construction budget 1.6 billion€, expected yearly budget for operations 150 million€ joint management with the scientific managing director of the company yearly cash budget ramping up from 2 million€ (shortened financial year Oct.2010 – Dec. 2012) up to 44 million€ in 2012
- Personnel ramping up from 2 employees in Oct 2010 up to 35 in 2011
- set-up of the company
- Finances, accounting, purchasing, legal services
- all issues related to site & buildings, building permits, etc.
- general services
- personnel and recruitment
- technical safety and security

2001 – 2010 GSI Helmholtzzentrum für Schwerionenforschung GmbH; www.gsi.de

2009 – 2010 Designated Administrative Director for FAIR, FAIR Division, Prokura (proxy holder on behalf of GSI GmbH)

Within the GSI GmbH as designated major shareholder, host lab and providing the injector accelerators to the FAIR facility, the FAIR division has been established providing the seed for the company to be founded. I took over the responsibility to coordinate and account for all necessary work and preparations to start-up the company FAIR GmbH after the signature of the Convention for FAIR.

Key Achievements

- providing advice to the international community (in this respect the representatives to the prospective signatory countries – mostly research ministries or research organizations) to formulate the legal documents
- formulating the contractual framework for in-kind contributions
- preparing the SAP-ERP system of GSI to accommodate FAIR's accounting area independently
- pre-defining structures and processes for the FAIR GmbH

General Responsibilities

- proxy holder for GSI GmbH for all FAIR issues
- recruiting in advance for the FAIR GmbH

2006 – 2009 Deputy Division leader FAIR Technical Division, Deputy Technical Project Leader Accelerator and Site & Buildings, Principal Investigator

Focusing on the technical challenges of the FAIR project (accelerator construction and issues concerning site & buildings), I was Deputy for the assigned Technical Director for FAIR. The GSI's FAIR Division was holding five departments and almost 100 employees. The main focus of the Division laid on elaborating all specifications for the accelerator complex and the construction and development of site & buildings.

Key achievements

- implementing project structures for the accelerator sub-project
- recruiting key personnel for the newly formed site & buildings department
- implementing the central documentation and document management system for FAIR
- structuring of the project and the project documentation

General Responsibilities

- assuring the completeness and integrity of the specifications
- managing the accelerator subproject within the EU-FP7 preparatory
- phase program for FAIR ☐ principal investigator within the Helmholtz
- Program "Structure of Matter" ☐ managing the division on behalf of the division leader
- budgeting for the division

2001 – 2006 Researcher Accelerator Division, Injectors Department

GSI runs a large scale accelerator on a 7/24 basis for approx. 6000 hours/year. Within the linear accelerator and injector group I was the responsible liaison person to the controls department

Key achievements

- redesign and supervision of the implementation of the experimental beam line for the Super Heavy Elements (SHE) Program@GSI (discovery of new elements) and bringing it into successful operation
- requirements specification of the FAIR control system and machine protection systems

General responsibilities

- responsible machine physicist on duty for the linear accelerator
- accelerator coordinator on duty

- beam-line responsible for the SHE-beamline and general beam diagnostics
- requirements analysis and specifications for operating software and beam diagnostics elements
Work package leader EU FP6 Program GANMVL
- supervisor for summer students

1996 – 2001 Researcher, Institute for Nuclear Physics, Technical University Darmstadt

I worked on my PhD thesis on the “*Design and Implementation of a Local Control System for the S-DALINAC*”. This involved the designing of hardware boards, and involved me writing approximately 15.000 lines of code. The work comprised the completely new set-up of the local control system, but still to work together with the remote controls. I was also involved in the supervision of students at the University.

Key achievements

- implementing a new local controls system for the accelerator
- implementing a new rf-controls system (supervision of a diploma thesis)
- implementing a controls system for the Helium refrigerator (supervision of a diploma thesis)
- implementing an archiving database for accelerator settings

General responsibilities

- ensuring the operationality of the accelerator
- deputy IT-Manager of the institute
- supervision of diploma/master thesis
- co-supervision of PhD thesis
- supervision of the practical training of graduate students (lab work)

JS 44 (Rev. 06/17)

PBT

CIVIL COVER SHEET

17-cv-2985

The JS 44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. (SEE INSTRUCTIONS ON NEXT PAGE OF THIS FORM.)

I. (a) PLAINTIFFS
 Headhunter, LLC

(b) County of Residence of First Listed Plaintiff Los Angeles, CA
 (EXCEPT IN U.S. PLAINTIFF CASES)

(c) Attorneys (Firm Name, Address and Telephone Number)
CREATIVE RIGHTS LAW GROUP, PLLC
 426 E. Baltimore Ave
 Media PA 19063 / 610-891-6500

DEFENDANTS
 John Does 1-10

17 2985

County of Residence of First Listed Defendant Philadelphia
 (IN U.S. PLAINTIFF CASES ONLY)

NOTE: IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE TRACT OF LAND INVOLVED.

Attorneys (If Known)

II. BASIS OF JURISDICTION (Place an "X" in One Box Only)

1 U.S. Government Plaintiff

3 Federal Question (U.S. Government Not a Party)

2 U.S. Government Defendant

4 Diversity (Indicate Citizenship of Parties in Item III)

III. CITIZENSHIP OF PRINCIPAL PARTIES (Place an "X" in One Box for Plaintiff and One Box for Defendant)

	PTF	DEF		PTF	DEF
Citizen of This State	<input type="checkbox"/> 1	<input type="checkbox"/> 1	Incorporated or Principal Place of Business In This State	<input type="checkbox"/> 4	<input type="checkbox"/> 4
Citizen of Another State	<input type="checkbox"/> 2	<input type="checkbox"/> 2	Incorporated and Principal Place of Business In Another State	<input type="checkbox"/> 5	<input type="checkbox"/> 5
Citizen or Subject of a Foreign Country	<input type="checkbox"/> 3	<input type="checkbox"/> 3	Foreign Nation	<input type="checkbox"/> 6	<input type="checkbox"/> 6

IV. NATURE OF SUIT (Place an "X" in One Box Only) Click here for: Nature of Suit Code Descriptions

CONTRACT	TORTS	FORFEITURE/PENALTY	BANKRUPTCY	OTHER STATUTES	
<input type="checkbox"/> 110 Insurance <input type="checkbox"/> 120 Marine <input type="checkbox"/> 130 Miller Act <input type="checkbox"/> 140 Negotiable Instrument <input type="checkbox"/> 150 Recovery of Overpayment & Enforcement of Judgment <input type="checkbox"/> 151 Medicare Act <input type="checkbox"/> 152 Recovery of Defaulted Student Loans (Excludes Veterans) <input type="checkbox"/> 153 Recovery of Overpayment of Veteran's Benefits <input type="checkbox"/> 160 Stockholders' Suits <input type="checkbox"/> 190 Other Contract <input type="checkbox"/> 195 Contract Product Liability <input type="checkbox"/> 196 Franchise	PERSONAL INJURY <input type="checkbox"/> 310 Airplane <input type="checkbox"/> 315 Airplane Product Liability <input type="checkbox"/> 320 Assault, Libel & Slander <input type="checkbox"/> 330 Federal Employers' Liability <input type="checkbox"/> 340 Marine <input type="checkbox"/> 345 Marine Product Liability <input type="checkbox"/> 350 Motor Vehicle <input type="checkbox"/> 355 Motor Vehicle Product Liability <input type="checkbox"/> 360 Other Personal Injury <input type="checkbox"/> 362 Personal Injury - Medical Malpractice	PERSONAL INJURY <input type="checkbox"/> 365 Personal Injury - Product Liability <input type="checkbox"/> 367 Health Care/Pharmaceutical Personal Injury Product Liability <input type="checkbox"/> 368 Asbestos Personal Injury Product Liability PERSONAL PROPERTY <input type="checkbox"/> 370 Other Fraud <input type="checkbox"/> 371 Truth in Lending <input type="checkbox"/> 380 Other Personal Property Damage <input type="checkbox"/> 385 Property Damage Product Liability	<input type="checkbox"/> 625 Drug Related Seizure of Property 21 USC 881 <input type="checkbox"/> 690 Other	<input type="checkbox"/> 422 Appeal 28 USC 158 <input type="checkbox"/> 423 Withdrawal 28 USC 157 PROPERTY RIGHTS <input checked="" type="checkbox"/> 820 Copyrights <input type="checkbox"/> 830 Patent <input type="checkbox"/> 835 Patent - Abbreviated New Drug Application <input type="checkbox"/> 840 Trademark	<input type="checkbox"/> 375 False Claims Act <input type="checkbox"/> 376 Qui Tam (31 USC 3729(a)) <input type="checkbox"/> 400 State Reapportionment <input type="checkbox"/> 410 Antitrust <input type="checkbox"/> 430 Banks and Banking <input type="checkbox"/> 450 Commerce <input type="checkbox"/> 460 Deportation <input type="checkbox"/> 470 Racketeer Influenced and Corrupt Organizations <input type="checkbox"/> 480 Consumer Credit <input type="checkbox"/> 490 Cable/Sat TV <input type="checkbox"/> 850 Securities/Commodities/Exchange <input type="checkbox"/> 890 Other Statutory Actions <input type="checkbox"/> 891 Agricultural Acts <input type="checkbox"/> 893 Environmental Matters <input type="checkbox"/> 895 Freedom of Information Act <input type="checkbox"/> 896 Arbitration <input type="checkbox"/> 899 Administrative Procedure Act/Review or Appeal of Agency Decision <input type="checkbox"/> 950 Constitutionality of State Statutes
REAL PROPERTY	CIVIL RIGHTS	PRISONER PETITIONS	LABOR	FEDERAL TAX SUITS	
<input type="checkbox"/> 210 Land Condemnation <input type="checkbox"/> 220 Foreclosure <input type="checkbox"/> 230 Rent Lease & Ejectment <input type="checkbox"/> 240 Torts to Land <input type="checkbox"/> 245 Tort Product Liability <input type="checkbox"/> 290 All Other Real Property	<input type="checkbox"/> 440 Other Civil Rights <input type="checkbox"/> 441 Voting <input type="checkbox"/> 442 Employment <input type="checkbox"/> 443 Housing/Accommodations <input type="checkbox"/> 445 Amer. w/Disabilities - Employment <input type="checkbox"/> 446 Amer. w/Disabilities - Other <input type="checkbox"/> 448 Education	Habeas Corpus: <input type="checkbox"/> 463 Alien Detainee <input type="checkbox"/> 510 Motions to Vacate Sentence <input type="checkbox"/> 530 General <input type="checkbox"/> 535 Death Penalty Other: <input type="checkbox"/> 540 Mandamus & Other <input type="checkbox"/> 550 Civil Rights <input type="checkbox"/> 555 Prison Condition <input type="checkbox"/> 560 Civil Detainee - Conditions of Confinement	<input type="checkbox"/> 710 Fair Labor Standards Act <input type="checkbox"/> 720 Labor/Management Relations <input type="checkbox"/> 740 Railway Labor Act <input type="checkbox"/> 751 Family and Medical Leave Act <input type="checkbox"/> 790 Other Labor Litigation <input type="checkbox"/> 791 Employee Retirement Income Security Act	<input type="checkbox"/> 870 Taxes (U.S. Plaintiff or Defendant) <input type="checkbox"/> 871 IRS—Third Party 26 USC 7609	
IMMIGRATION					
<input type="checkbox"/> 462 Naturalization Application <input type="checkbox"/> 465 Other Immigration Actions					

V. ORIGIN (Place an "X" in One Box Only)

1 Original Proceeding

2 Removed from State Court

3 Remanded from Appellate Court

4 Reinstated or Reopened

5 Transferred from Another District (specify)

6 Multidistrict Litigation - Transfer

8 Multidistrict Litigation - Direct File

VI. CAUSE OF ACTION

Cite the U.S. Civil Statute under which you are filing (Do not cite jurisdictional statutes unless diversity):
17 USC 101 et seq

Brief description of cause:
Illegal distribution of copyrighted films

VII. REQUESTED IN COMPLAINT:

CHECK IF THIS IS A CLASS ACTION UNDER RULE 23, F.R.Cv.P.

DEMAND \$ 150,000.00

CHECK YES only if demanded in complaint:
JURY DEMAND: Yes No

VIII. RELATED CASE(S) IF ANY (See instructions):

JUDGE _____ DOCKET NUMBER _____

DATE 06/29/2017

SIGNATURE OF ATTORNEY OF RECORD

FOR OFFICE USE ONLY

RECEIPT # _____ AMOUNT _____ APPLYING IFP _____ JUDGE _____ MAG. JUDGE _____

JUL 03 2017

PBT

UNITED STATES DISTRICT COURT

17

2985

FOR THE EASTERN DISTRICT OF PENNSYLVANIA — DESIGNATION FORM to be used by counsel to indicate the category of the case for the purpose of assignment to appropriate calendar.

Address of Plaintiff: 116 N. Robertson Blvd., Suite 200 Los Angeles, CA 90048

Address of Defendant: unknown

Place of Accident, Incident or Transaction: Various locations throughout the Eastern District

(Use Reverse Side For Additional Space)

Does this civil action involve a nongovernmental corporate party with any parent corporation and any publicly held corporation owning 10% or more of its stock? (Attach two copies of the Disclosure Statement Form in accordance with Fed.R.Civ.P. 7.1(a)) Yes No

Does this case involve multidistrict litigation possibilities? Yes No

RELATED CASE, IF ANY:

Case Number: _____ Judge _____ Date Terminated: _____

Civil cases are deemed related when yes is answered to any of the following questions:

- 1. Is this case related to property included in an earlier numbered suit pending or within one year previously terminated action in this court? Yes No
- 2. Does this case involve the same issue of fact or grow out of the same transaction as a prior suit pending or within one year previously terminated action in this court? Yes No
- 3. Does this case involve the validity or infringement of a patent already in suit or any earlier numbered case pending or within one year previously terminated action in this court? Yes No
- 4. Is this case a second or successive habeas corpus, social security appeal, or pro se civil rights case filed by the same individual? Yes No

CIVIL: (Place in ONE CATEGORY ONLY)

A. Federal Question Cases:

- 1. Indemnity Contract, Marine Contract, and All Other Contracts
- 2. FELA
- 3. Jones Act-Personal Injury
- 4. Antitrust
- 5. Patent
- 6. Labor-Management Relations
- 7. Civil Rights
- 8. Habeas Corpus
- 9. Securities Act(s) Cases
- 10. Social Security Review Cases
- 11. All other Federal Question Cases (Please specify) Copyright

B. Diversity Jurisdiction Cases:

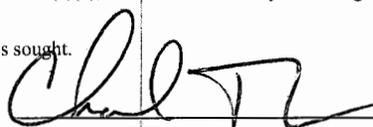
- 1. Insurance Contract and Other Contracts
- 2. Airplane Personal Injury
- 3. Assault, Defamation
- 4. Marine Personal Injury
- 5. Motor Vehicle Personal Injury
- 6. Other Personal Injury (Please specify) _____
- 7. Products Liability
- 8. Products Liability — Asbestos
- 9. All other Diversity Cases (Please specify) _____

ARBITRATION CERTIFICATION

(Check Appropriate Category)

I, Charles Thomas, Esq. counsel of record do hereby certify:
 Pursuant to Local Civil Rule 53.2, Section 3(c)(2), that to the best of my knowledge and belief, the damages recoverable in this civil action case exceed the sum of \$150,000.00 exclusive of interest and costs;
 Relief other than monetary damages is sought.

DATE: June 29, 2017

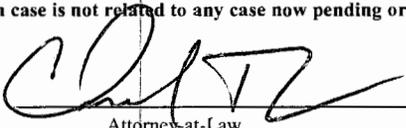

Attorney-at-Law

89781
Attorney I.D.#

NOTE: A trial de novo will be a trial by jury only if there has been compliance with F.R.C.P. 38.

I certify that, to my knowledge, the within case is not related to any case now pending or within one year previously terminated action in this court except as noted above.

DATE: June 29, 2017


Attorney-at-Law

89781
Attorney I.D.#

PBT IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF PENNSYLVANIA

CASE MANAGEMENT TRACK DESIGNATION FORM

HEADHUNTER, LLC

v.

JOHN DOES 1-10

:
:
:
:
:

CIVIL ACTION

17 2985

NO.

In accordance with the Civil Justice Expense and Delay Reduction Plan of this court, counsel for plaintiff shall complete a Case Management Track Designation Form in all civil cases at the time of filing the complaint and serve a copy on all defendants. (See § 1:03 of the plan set forth on the reverse side of this form.) In the event that a defendant does not agree with the plaintiff regarding said designation, that defendant shall, with its first appearance, submit to the clerk of court and serve on the plaintiff and all other parties, a Case Management Track Designation Form specifying the track to which that defendant believes the case should be assigned.

SELECT ONE OF THE FOLLOWING CASE MANAGEMENT TRACKS:

- (a) Habeas Corpus – Cases brought under 28 U.S.C. § 2241 through § 2255. ()
- (b) Social Security – Cases requesting review of a decision of the Secretary of Health and Human Services denying plaintiff Social Security Benefits. ()
- (c) Arbitration – Cases required to be designated for arbitration under Local Civil Rule 53.2. ()
- (d) Asbestos – Cases involving claims for personal injury or property damage from exposure to asbestos. ()
- (e) Special Management – Cases that do not fall into tracks (a) through (d) that are commonly referred to as complex and that need special or intense management by the court. (See reverse side of this form for a detailed explanation of special management cases.) ()
- (f) Standard Management – Cases that do not fall into any one of the other tracks. (X)

JUNE 29, 2017

Date

610-891-6500

Telephone

Attorney-at-law

215-689-1930

FAX Number

HEADHUNTER, LLC

Attorney for

CTHOMAS@LMHLAW.COM

E-Mail Address

(Civ. 660) 10/02

JUL 03 2017