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| PATENT ASSIGNMENT COVER SHEET |
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 Stylesheet Version v1.2

EPAS ID: PAT5890282

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|------------------------------|----------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| NAPO ENTERPRISES, LLC | 12/03/2019 |

RECEIVING PARTY DATA

| | |
|--------------------------|--------------------------------|
| Name: | CONCERT TECHNOLOGY CORPORATION |
| Street Address: | 20 DEPOT STREET |
| Internal Address: | SUITE 2A |
| City: | PETERBOROUGH |
| State/Country: | NEW HAMPSHIRE |
| Postal Code: | 03458 |

PROPERTY NUMBERS Total: 100

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7765192 |
| Patent Number: | 8060477 |
| Patent Number: | 7941764 |
| Patent Number: | 9081780 |
| Patent Number: | 7958107 |
| Patent Number: | 8375053 |
| Patent Number: | 8024431 |
| Patent Number: | 8209416 |
| Patent Number: | 8458257 |
| Patent Number: | 9374398 |
| Patent Number: | 9674241 |
| Patent Number: | 9172117 |
| Patent Number: | 7444388 |
| Patent Number: | 8185579 |
| Patent Number: | 9037639 |
| Patent Number: | 8224899 |
| Patent Number: | 8285810 |
| Patent Number: | 8285811 |
| Patent Number: | 8484311 |

PATENT

| Property Type | Number |
|----------------------|---------------|
| Patent Number: | 8874650 |
| Patent Number: | 9396196 |
| Patent Number: | 7853712 |
| Patent Number: | 8484227 |
| Patent Number: | 7752265 |
| Patent Number: | 8880599 |
| Patent Number: | 9014832 |
| Patent Number: | 9191229 |
| Patent Number: | 8701137 |
| Patent Number: | 8938467 |
| Patent Number: | 9015757 |
| Patent Number: | 9083932 |
| Patent Number: | 9088757 |
| Patent Number: | 9247297 |
| Patent Number: | 9288540 |
| Patent Number: | 9507785 |
| Patent Number: | 9535916 |
| Patent Number: | 9445158 |
| Patent Number: | 8707363 |
| Patent Number: | 9094722 |
| Patent Number: | 9208239 |
| Patent Number: | 8799496 |
| Patent Number: | 8903843 |
| Patent Number: | 8090606 |
| Patent Number: | 8620699 |
| Patent Number: | 8874655 |
| Patent Number: | 7680959 |
| Patent Number: | 7970922 |
| Patent Number: | 8059646 |
| Patent Number: | 8327266 |
| Patent Number: | 8422490 |
| Patent Number: | 8583791 |
| Patent Number: | 8762847 |
| Patent Number: | 8805831 |
| Patent Number: | 9003056 |
| Patent Number: | 9292179 |
| Patent Number: | 8839141 |
| Patent Number: | 8954883 |

| Property Type | Number |
|----------------------|---------------|
| Patent Number: | 9275055 |
| Patent Number: | 9448688 |
| Patent Number: | 8983950 |
| Patent Number: | 9224427 |
| Patent Number: | 8112720 |
| Patent Number: | 8434024 |
| Patent Number: | 9164993 |
| Patent Number: | 9037632 |
| Patent Number: | 9060034 |
| Patent Number: | 7865522 |
| Patent Number: | 8396951 |
| Patent Number: | 9071662 |
| Patent Number: | 9824144 |
| Patent Number: | 8200602 |
| Patent Number: | 9367808 |
| Patent Number: | 9224150 |
| Patent Number: | 8725740 |
| Patent Number: | 9734507 |
| Application Number: | 14922268 |
| Application Number: | 12914103 |
| Application Number: | 12769948 |
| Application Number: | 12731730 |
| Application Number: | 12769935 |
| Application Number: | 12769058 |
| Application Number: | 12769028 |
| Application Number: | 14803203 |
| Application Number: | 15069203 |
| Application Number: | 14690680 |
| Application Number: | 13172212 |
| Application Number: | 14311683 |
| Application Number: | 14546592 |
| Application Number: | 13305871 |
| Application Number: | 14085865 |
| Application Number: | 14501139 |
| Application Number: | 13077035 |
| Application Number: | 14301932 |
| Application Number: | 11757219 |
| Application Number: | 13866152 |

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12457429 |
| Application Number: | 12698240 |
| Application Number: | 15180487 |
| Application Number: | 14974921 |
| Application Number: | 14269305 |

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER: NAPO TO CON 2019

NAME OF SUBMITTER: CHERYL F. RAMEY

SIGNATURE: /Cheryl F. Ramey/

DATE SIGNED: 12/31/2019

Total Attachments: 8

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ASSIGNMENT

This Assignment made by **Napo Enterprises, LLC ("Napo")**, hereinafter referred to as assignor, a Delaware limited liability company with a principal place of business at 20 Depot Street, Suite 2A, City of Peterborough, State of New Hampshire, 03458;

WITNESSETH: That,

WHEREAS, the patent application(s) and patent(s) (hereinafter "the patents"), which are listed in the attached Exhibit A, are hereby assigned to the assignor; and

WHEREAS, **Concert Technology Corporation (hereinafter "Concert")**, a limited liability company duly organized and existing under the laws of the State of Delaware and having a place of business at 20 Depot Street, Suite 2A, City of Peterborough, State of New Hampshire, 03458, hereinafter referred to as assignee, has acquired the entire right, title, and interest in and to the Patents.

NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, transfers, and sets over unto the said assignee, its successors and assigns, the entire right, title and interest in and to the Patents, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of the Patent, the same to be held and enjoyed by the said assignee, for its interest, and for its own use and behalf, and the use and behalf of its successors and assigns, to the full end of the term for which the Patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made.

And for the consideration aforesaid, Assignor hereby covenants and agrees to and with the said assignee, its successors and assigns, that at the time of the execution and delivery of

these presents Assignor is the sole and lawful owner of the entire right, title and interest in and to the Patents and that the same are unencumbered, and that Assignor has good right and lawful authority to sell and convey the same in the manner herein set forth.

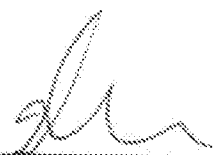
And for the consideration aforesaid, Assignor hereby covenants and agrees to and with the said assignee, its successors and assigns, that Assignor will, whenever its counsel or the counsel of its successors and assigns, learned in the law, shall advise that an amendment, division, continuation, continuation-in-part, or substitution of, or any other proceeding in connection with the Patents, including interference proceedings, is lawful and desirable, sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for the Patents or for the reissue of the same without charge to Assignee, its successors or assigns, but at its expense.

Said sale, conveyance, assignment, and transfer includes, without limitation, the rights to enforce, assert, and sue for past, present, and future infringement of the Patents, and the rights to recover and collect for past, present, and future damages related to the Patents.

IN WITNESS WHEREOF, the parties cause this document to be signed on their behalves:

For Napo Enterprises, LLC:

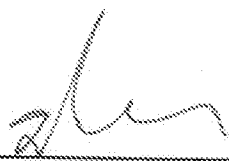
12 / 3 / 2019
Date



Hugh Svendsen
CEO

For Concert Technology Corporation:

12 / 3 / 2019
Date



Hugh Svendsen
CEO

Exhibit A

NAPO ENTERPRISES, LLC ASSETS PREVIOUSLY ASSIGNED FROM ABO ENTERPRISES, LLC

| LOT NAME | SERIAL NO. | ISSUE / PGPUB NO. | TITLE |
|----------|----------------|-------------------|---|
| ABO 1 | 11392051 | 7765192 | System and method for archiving a media collection |
| ABO 1 | 12821363 | 8060477 | System and method for archiving a media collection |
| ABO 2 | 11696475 | 7941764 | System and method for assigning user preference settings for a category, and in particular a media category |
| ABO 2 | 13076912 | 9081780 | System and method for assigning user preference settings for a category, and in particular a media category |
| ABO 4 | CN20091132059 | CN101567007 | Fuzzy keyword searching |
| ABO 4 | 12100457 | 7958107 | Fuzzy keyword searching |
| ABO 4 | 13096226 | 8375053 | Fuzzy keyword searching |
| ABO 3 | CN200810176380 | CN101446949 | Intelligent default weighting process for criteria utilized to score media content items |

NAPO ENTERPRISES, LLC ASSETS PREVIOUSLY ASSIGNED FROM DOMINGO ENTERPRISES, LLC

| LOT NAME | SERIAL NO. | ISSUE / PGPUB NO. | TITLE |
|-----------|---------------|--------------------|---|
| DOMINGO 4 | CN20081184426 | CN101465879 | System and method for identifying transient friends |
| DOMINGO 4 | CN20121581734 | CN103279468 | System and method for identifying transient friends |
| DOMINGO 4 | 12013147 | 8024431 | System and method for identifying transient friends |
| DOMINGO 4 | 13036370 | 8209416 | System and method for identifying transient friends |
| DOMINGO 4 | 13533056 | 8458257 | System and method for identifying transient friends |
| DOMINGO 4 | 13887456 | 9374398 | System and method for maintaining associations within a social network for a user |
| DOMINGO 4 | 15186676 | 9674241 | System and method for maintaining associations within a social network for a user |
| DOMINGO 5 | 14922268 | US 2016-0043445 A1 | User-controlled application-based power management |
| DOMINGO 5 | 12327848 | 9172117 | User-controlled application-based power management |

NAPO ENTERPRISES, LLC ASSETS PREVIOUSLY ASSIGNED FROM ELOY TECHNOLOGY, LLC

| LOT NAME | SERIAL NO. | ISSUE / PGPUB NO. | TITLE |
|----------|------------|-------------------|---------------------------------------|
| ELOY 1 | 11403595 | 7444388 | System and method for obtaining media |

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|--------|---------------|--------------------|--|
| ELOY 1 | 12233871 | 8185579 | content for a portable media player System and method for obtaining media content for a portable media player |
| ELOY 1 | 13449613 | 9037639 | System and method for obtaining media content for a portable media player |
| ELOY 2 | CN20091132756 | CN101561820 | Method and system for aggregating media collections between participants of a sharing network |
| ELOY 2 | 12104572 | 8224899 | Method and system for aggregating media collections between participants of a sharing network |
| ELOY 2 | 12104675 | 8285810 | Aggregating media collections between participants of a sharing network utilizing bridging |
| ELOY 2 | 12104684 | 8285811 | Aggregating media collections to provide a primary list and sorted sub-lists |
| ELOY 2 | 12104690 | 8484311 | Pruning an aggregate media collection |
| ELOY 2 | 13545102 | 8874650 | Method and system for aggregating media collections between participants of a sharing network |
| ELOY 2 | 14501124 | 9396196 | Method and system for aggregating media collections between participants of a sharing network |
| ELOY 3 | CN20091179743 | CN101714156 | Activity indicators in a media sharing system |
| ELOY 3 | 12914103 | US 2012-0023430 A1 | Activity indicators in a media sharing system |
| ELOY 3 | 12239877 | 7853712 | Activity indicators in a media sharing system |
| ELOY 4 | 12251513 | 8484227 | Caching and synching process for a media sharing system |
| ELOY 4 | 12251490 | 7752265 | Source indicators for elements of an aggregate media collection in a media sharing system |
| ELOY 4 | 12251542 | 8880599 | Collection digest for a media sharing system |
| ELOY 5 | 12569766 | 9014832 | Augmenting media content in a media sharing group |
| ELOY 5 | 12696091 | 9191229 | Remote participation in a local area network (lan) based media aggregation network |
| ELOY 5 | 12769948 | US 2012-0114311 A1 | Method and system for distributing the recording of a media item |
| ELOY 5 | 12731730 | US 2012-0114312 A1 | Method and system for determining the availability of a media controller |
| ELOY 6 | 12769935 | US 2012-0114313 A1 | System and method for remote resume of video and dvr content |
| ELOY 6 | 12769058 | US 2012-0117585 A1 | Method and system for applying content restrictions to renderers in identified network viewing areas |
| ELOY 6 | 12769028 | US 2012-0117632 A1 | Method and system for authenticating a data stream |
| ELOY 6 | 14803203 | US 2015-0326938 A1 | Method and system for socially ranking programs |
| ELOY 6 | 15069203 | US 2016-0195025 A1 | System and method for aggregating devices for intuitive browsing |
| ELOY 6 | 12769691 | 8701137 | Preview-based content monitoring and |

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| ELOY 6 | 12731586 | 8938467 | blocking system System and method for intelligent storage of time shifted content |
| ELOY 6 | 12731676 | 9015757 | Merged program guide |
| ELOY 6 | 12731771 | 9083932 | Method and system for providing information from a program guide |
| ELOY 6 | 12731817 | 9088757 | Method and system for socially ranking programs |
| ELOY 6 | 14250502 | 9247297 | Preview-based content monitoring and blocking system |
| ELOY 6 | 12731606 | 9288540 | System and method for aggregating devices for intuitive browsing |
| ELOY 6 | 13116035 | 9507785 | Flexible content storage management for dvrs |
| ELOY 6 | 14574535 | 9535916 | System and method for intelligent storage of time shifted content |
| ELOY 6 | 14690680 | US 2015-0229993 A1 | Merged program guide |
| ELOY 7 | 12914115 | 9445158 | Distributed aggregated content guide for collaborative playback session |
| ELOY 8 | 12976358 | 8707363 | Synchronization guides for group video watching |
| ELOY 8 | 14257156 | 9094722 | Synchronization guides for group video watching |
| ELOY 9 | 13172212 | US 2012-0117110 A1 | Dynamic location-based media collection aggregation |
| ELOY 9 | 13172178 | 9208239 | Method and system for aggregating music in the cloud |
| ELOY 10 | 14311683 | US 2014-0304751 A1 | System and method for video display transfer between video playback devices |
| ELOY 10 | 12838532 | 8799496 | System and method for video display transfer between video playback devices |

| LOT NAME | SERIAL NO. | ISSUE / PGPUB NO. | TITLE |
|----------|--------------|--------------------|---|
| NAPO 2 | 14546592 | US 2015-0074090 A1 | Historical media recommendation service |
| NAPO 2 | 11471797 | 8903843 | Historical media recommendation service |
| NAPO 3 | 13305871 | US 2012-0071996 A1 | Embedded media recommendations |
| NAPO 3 | 11463148 | 8090606 | Embedded media recommendations |
| NAPO 4 | 14085865 | US 2014-0082499 A1 | Heavy influencer media recommendations |
| NAPO 4 | 11463157 | 8620699 | Heavy influencer media recommendations |
| NAPO 6 | 14501139 | US 2015-0019581 A1 | Selecting friends in a network of friends loosely coupled to a subscription service |
| NAPO 6 | 11609962 | 8874655 | Matching participants in a p2p recommendation network loosely coupled to a subscription service |
| NAPO 7 | CN2007826157 | CN101490664 | P2p network for providing real time media recommendations |
| NAPO 7 | 13077035 | US 2012-0072610 A1 | P2p real time media recommendations |
| NAPO 7 | 14301932 | US 2014-0297752 A1 | Device for participating in a network for sharing media consumption activity |
| NAPO 7 | 11484130 | 7680959 | P2p network for providing real time media recommendations |

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| NAPO 7 | 12195628 | 7970922 | P2p real time media recommendations |
| NAPO 7 | 11609948 | 8059646 | System and method for identifying music content in a p2p real time recommendation network |
| NAPO 7 | 11750002 | 8327266 | Graphical user interface system for allowing management of a media item playlist based on a preference scoring system |
| NAPO 7 | 12911778 | 8422490 | System and method for identifying music content in a p2p real time recommendation network |
| NAPO 7 | 13370388 | 8583791 | Maintaining a minimum level of real time media recommendations in the absence of online friends |
| NAPO 7 | 13693785 | 8762847 | Graphical user interface system for allowing management of a media item playlist based on a preference scoring system |
| NAPO 7 | 11757263 | 8805831 | Scoring and replaying media items |
| NAPO 7 | 11609945 | 9003056 | Maintaining a minimum level of real time media recommendations in the absence of online friends |
| NAPO 7 | 13852553 | 9292179 | System and method for identifying music content in a p2p real time recommendation network |
| NAPO 7 | WO200768863 | WO2008008563 | General request and response messaging using a presence protocol |
| NAPO 7 | 11757213 | 8839141 | Method and system for visually indicating a replay status of media items on a media device |
| NAPO 7 | 14457574 | 8954883 | Method and system for visually indicating a replay status of media items on a media device |
| NAPO 7 | 14617222 | 9275055 | Method and system for visually indicating a replay status of media items on a media device |
| NAPO 7 | 15056314 | 9448688 | Visually indicating a replay status of media items on a media device |
| NAPO 7 | 11757219 | US 2009-0049045 A1 | Method and system for sorting media items in a playlist on a media device |
| NAPO 7 | 12778604 | 8983950 | Method and system for sorting media items in a playlist on a media device |
| NAPO 8 | CN2008818532 | CN101689075 | Rating media item recommendations using recommendation paths and/or media item usage |
| NAPO 8 | 11695327 | 9224427 | Rating media item recommendations using recommendation paths and/or media item usage |
| NAPO 8 | WO200859057 | WO2008122021 | General request and response messaging using a presence protocol |
| NAPO 9 | CN2008818422 | CN101720456 | Graphically associating programmatically-generated media item recommendations related to a user's socially recommended media items |
| NAPO 9 | 13866152 | US 2013-0239008 A1 | System and method for automatically and |

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| | | | graphically associating programmatically-generated media item recommendations related to a user's socially recommended media items |
| NAPO 9 | 11696849 | 8112720 | System and method for automatically and graphically associating programmatically-generated media item recommendations related to a user's socially recommended media items |
| NAPO 9 | 13076880 | 8434024 | System and method for automatically and graphically associating programmatically-generated media item recommendations related to a user's socially recommended media items |
| NAPO 9 | WO200859068 | WO2008124410 | General request and response messaging using a presence protocol |
| NAPO 10 | CN2008198758 | CN101315637 | System and method for propagating a received media item recommendation message comprising recommender presence information |
| NAPO 10 | 11757079 | 9164993 | System and method for propagating a media item recommendation message comprising recommender presence information |
| NAPO 10 | CN2008198751 | CN101315634 | System and method of generating a media item recommendation message with recommender presence information |
| NAPO 10 | 11757083 | 9037632 | System and method of generating a media item recommendation message with recommender presence information |
| NAPO 11 | CN20081174469 | CN101431483 | System and method of filtering recommenders in a media item recommendation system |
| NAPO 11 | 11937756 | 9060034 | System and method of filtering recommenders in a media item recommendation system |
| NAPO 12 | CN20081171094 | CN101430701 | System and method for hyping media recommendations in a media recommendation system |
| NAPO 12 | 11938562 | 7865522 | System and method for hyping media recommendations in a media recommendation system |
| NAPO 13 | CN20081189028 | CN101465703 | Method and system for populating a content repository for an internet radio service based on a recommendation network |
| NAPO 13 | 11961105 | 8396951 | Method and system for populating a content repository for an internet radio service based on a recommendation network |
| NAPO 13 | 13764168 | 9071662 | Method and system for populating a content repository for an internet radio service based on a recommendation network |
| NAPO 14 | 12476470 | 9824144 | Method and system for previewing recommendation queues |
| NAPO 14 | 12457429 | US 2010-0199295 A1 | Dynamic video segment recommendation |

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|---------|---------------|--------------------|--|
| | | | based on video playback location |
| NAPO 14 | 12698240 | US 2012-0041967 A1 | System and method for associating a media recommendation with a media item |
| NAPO 14 | 15180487 | US 2016-0299970 A1 | System and method for creating thematic listening experiences in a networked peer media recommendation environment |
| NAPO 14 | 12472631 | 8200602 | System and method for creating thematic listening experiences in a networked peer media recommendation environment |
| NAPO 14 | 13468254 | 9367808 | System and method for creating thematic listening experiences in a networked peer media recommendation environment |
| NAPO 15 | CN20081185581 | CN101465823 | Identifying highly valued recommendations of users in a media recommendation network |
| NAPO 15 | 14974921 | US 2016-0105519 A1 | Identifying highly valued recommendations of users in a media recommendation network |
| NAPO 15 | 11958600 | 9224150 | Identifying highly valued recommendations of users in a media recommendation network |
| NAPO 16 | CN20091128057 | CN101546589 | Active playlist having dynamic media item groups |
| NAPO 16 | 14269305 | US 2014-0245147 A1 | Active playlist having dynamic media item groups |
| NAPO 16 | 12053782 | 8725740 | Active playlist having dynamic media item groups |
| NAPO 17 | CN20081184421 | CN101465878 | Method and system for simulating recommendations in a social network for an offline user |
| NAPO 17 | 11961730 | 9734507 | Method and system for simulating recommendations in a social network for an offline user |

PATENT

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REEL: 051457 FRAME: 0514