

Industria y Comercio

SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

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DIRECCIÓN DE NUEVAS CREACIONES

Procedimiento acelerado de exámenes de patente (PPH)

1	NÚMERO DE SOLICITUD ANTE LA SIC	14140879
2	OFICINA DE PRIMERA PRESENTACIÓN (OPP)	ESTADOS UNIDOS DE AMERICA
3	NÚMERO(S) DE SOLICITUD O PUBLICACIÓN DE LA(S) SOLICITUD(ES) (OPP):	1.13/349,271 2. 3.
4	☐ REPRESENTANTE LEGAL ☐ APODERADO	
APELLIDOS LOPEZ DÍAZ		NOMBRES SILVANA MARIA
		IDENTIFICACIÓN C.C. 22.468.787 T.P. 147463 CSJ
DIRECCIÓN	Carrera 11 No. 86-53 Piso 6	No. TELÉFONO 618 10 88
CIUDAD	Bogotá	CORREO ELECTRÓNICO notificaciones@clarkemodet.com.co
PAÍS	COLOMBIA	No. RADICACIÓN O PROTOCOLO DE PODER GENERAL
5	CONDICIONES PARA ACCEDER A ESTE PROCESO:	
5.1. DATOS DE PRIORIDAD ☐ SI ☐ NO		
(33) PAÍS DE ORIGEN		CÓDIGO PAÍS
1. 2. 3.		(31) NÚMERO
		(32) FECHA (AAAA/MM/DD)
5.2. DATOS SOLICITUD INTERNACIONAL PCT ☐ SI ☐ NO		
Solicitud Internacional No. PCT/US2013/021049		Fecha 10/01/2013
Publicación Internacional No. WO2013/106582		Fecha 18/07/2013
El solicitante presenta una copia de la(s) reivindicación(es) patentable(s) u otorgable(s) de la solicitud de la Oficina de Primera Presentación que profirió el examen de patentabilidad, junto con una traducción al castellano. ☐ SI ☐ NO		
REQUISITOS PARA EL RECONOCIMIENTO DE LOS RESULTADOS DE EXÁMENES DE PATENTABILIDAD EFECTUADOS A SOLICITUDES EXTRANJERAS		
Para que la Superintendencia de Industria y Comercio pueda reconocer los resultados de exámenes de patentabilidad producidos por otras Oficinas de Propiedad Industrial se debe cumplir con las siguientes condiciones:		
(a) Al momento de solicitar el examen de patentabilidad, si el solicitante pide que se reconozcan exámenes de patentabilidad de otras oficinas extranjeras, deberá aportar junto con el pago de la tasa correspondiente, los siguientes anexos:		
(i) Copia de las resoluciones, fallos o decisiones que han sido relevantes para la determinación de la patentabilidad de la(s) solicitud(es) en la Oficina que haya proferido el examen de patentabilidad que contienen reivindicaciones patentables u otorgables que son la base de la petición, y si es del caso, su traducción al castellano. ☐ SI ☐ NO		
(ii) Copia de todas las reivindicaciones determinadas como patentables u otorgables en la Oficina que profirió el examen de patentabilidad y, si es del caso, su traducción al castellano. ☐ SI ☐ NO		
(iii) Copia de los antecedentes, información o documentos citados por el examinador de la Oficina de Primera Presentación del examen de patentabilidad, en las resoluciones, fallos o decisiones correspondientes, incluyendo la literatura no patente. Los documentos de patente deberán presentarse siempre y cuando no estén disponibles para la Superintendencia de Industria y Comercio mediante el simple acceso a bases de datos gratuitas. ☐ SI ☐ NO		
(iv) Una tabla de correspondencias de las reivindicaciones que han sido determinadas como patentables u otorgables en la solicitud de la Oficina que haya proferido el examen de patentabilidad.		
7	FIRMA DEL SOLICITANTE, DEL APODERADO O DEL REPRESENTANTE LEGAL	
Junto a cada firma, indicar el nombre del firmante y su calidad (si tal calidad no es obvia al leer el petitorio)		

6	TABLA DE CORRESPONDENCIA DE REIVINDICACIONES		
Reivindicaciones en la solicitud en Colombia		Reivindicaciones otorgables en la solicitud internacional	Explicación sobre la suficiente correspondencia ó Comentarios que explican la correspondencia
1. Un método que comprende: Generar una lista de reproducción correspondiente a los títulos de contenido almacenados en un decodificador; Comunicar la lista de reproducción al dispositivo del usuario; Seleccionar un primer título de contenido de la lista de reproducción en el dispositivo del usuario para formar una selección; Transcodificar el contenido correspondiente a la selección en el dispositivo de transcodificación para formar un contenido transcodificado; y Comunicar el contenido transcodificado al dispositivo del usuario.		1. Un método que comprende: Transcodificar el contenido en un dispositivo transcodificador para formar el contenido transcodificado; Comunicar el contenido transcodificado a un decodificador; Generar una lista de reproducción correspondiente al contenido transcodificado almacenado en el decodificador; Comunicar la lista de reproducción a un dispositivo de usuario; Seleccionar un primer título de contenido de la lista de reproducción en el dispositivo de usuario para formar una selección; y Comunicar el contenido transcodificado correspondiente a la selección desde el decodificador al dispositivo de usuario.	La diferencia entre las dos reivindicaciones 1, está en que en la correspondiente estadounidense se incluyó el paso de comunicar el contenido transcodificado a un decodificador.
2. El método reclamado en la reivindicación 1, en donde generar la lista de reproducción, comprende generar la lista de reproducción y comunicar la lista de reproducción a una ubicación en la nube y en donde comunicar la lista de reproducción al dispositivo del usuario, comprende comunicar la lista de reproducción al dispositivo del usuario desde la ubicación en la nube.		2. El método de acuerdo con la reivindicación 1, en donde generar la lista de reproducción comprende generar la lista de reproducción y comunicar la lista de reproducción a una ubicación en la nube.	La diferencia entre las dos reivindicaciones 2, está en que en la correspondiente colombiana se incluyó el paso de en donde comunicar la lista de reproducción al dispositivo del usuario, comprende comunicar la lista de reproducción al dispositivo del usuario desde la ubicación en la nube.

3. El método reclamado en la reivindicación 1, en donde transcodificar el contenido, comprende comunicar el contenido simultáneamente al decodificador y al dispositivo de transcodificación, en donde el dispositivo de transcodificación forma un contenido transcodificado.	3. El método de acuerdo con la reivindicación 1, en donde transcodificar el contenido comprende comunicar el contenido simultáneamente al decodificador y el dispositivo transcodificador, en donde el dispositivo transcodificador forma el contenido transcodificado.	Igual
4. El método reclamado en la reivindicación 1, en donde el contenido transcodificado, comprende comunicar el contenido desde el decodificador a través de la red al dispositivo de transcodificación para formar el contenido transcodificado y en donde se realiza la transcodificación del contenido en respuesta a recibir la selección en un servidor asociado con el dispositivo de transcodificación.	4. El método de acuerdo con la reivindicación 1, en donde transcodificar el contenido comprende comunicar el contenido desde el decodificador a través de una red al dispositivo transcodificador para formar el contenido transcodificado.	Corresponde a la Rv 4 de la solicitud colombiana
5. El método reclamado en la reivindicación 1, que además comprende generar una solicitud de la lista de reproducción en el dispositivo del usuario y comunicar la solicitud de la lista de reproducción al decodificador.	5. El método de acuerdo con la reivindicación 1, en donde transcodificar el contenido se ejecuta en respuesta a recibir una solicitud en un servidor asociado con el dispositivo transcodificador.	Corresponde a la Rv 4 de la solicitud colombiana
6. El método reclamado de la reivindicación 1, que además comprende generar una solicitud para la lista de reproducción en el dispositivo del usuario y comunicar la solicitud al decodificador desde una ubicación en la nube.	6. El método de acuerdo con la reivindicación 1, que además comprende comunicar la selección al decodificador.	Cancelada en la solicitud Colombiana

7. El método reclamado de la reivindicación 1, en donde comunicar el contenido transcodificado al dispositivo del usuario comprende comunicar el contenido transcodificado al dispositivo del usuario desde una ubicación en la nube al decodificador o un servidor asociado con el dispositivo de transcodificación.	7. El método de acuerdo con la reivindicación 1 que además comprende almacenar el contenido transcodificado en el decodificador.	<i>Cancelada en la solicitud Colombiana</i>
8. Un sistema que comprende: Un decodificador que genera una lista de reproducción correspondiente a los títulos de los contenidos allí almacenados; Un dispositivo de usuario en comunicación con una ubicación en la nube y con el decodificador, a través de una red, dicho dispositivo del usuario revisa la lista de reproducción y selecciona el primer título de contenido desde la lista de reproducción para formar la selección; la ubicación en la nube que comprende un dispositivo de transcodificación que transcodifica el contenido correspondiente a la selección para formar el contenido transcodificado; y una de las ubicaciones en la nube y el decodificador comunican el contenido transcodificado al dispositivo del usuario.	8. El método de acuerdo con la reivindicación 1 que además comprende generar una solicitud de la lista de reproducción en el dispositivo de usuario y comunicar la solicitud de la lista de reproducción al decodificador.	<i>Corresponde a la Rv 5 de la solicitud Colombiana</i>
9. El sistema reclamado en la reivindicación 8, en donde el decodificador comunica la lista de reproducción a la ubicación en la nube y en donde la ubicación en la nube comunica la lista de reproducción al dispositivo del usuario.	9. El método de acuerdo con la reivindicación 8, en donde comunicar la solicitud de la lista de reproducción al decodificador comprende comunicar la solicitud a través de un satélite.	<i>Cancelada en la solicitud Colombiana</i>

10. El sistema reclamado de la reivindicación 8, en donde el dispositivo de transcodificación recibe el contenido simultáneamente con el decodificador y en donde el dispositivo de transcodificación transcodifica el contenido.	10. El método de acuerdo con la reivindicación 1, que además comprende generar una solicitud de la lista de reproducción en el dispositivo de usuario y comunicar la solicitud de la lista de reproducción al decodificador desde un servidor localizado en modo remoto respecto del decodificador.	<i>Cancelada en la solicitud Colombiana</i>
11. El sistema reclamado en la reivindicación 8, que además comprende un servidor, en donde el dispositivo de transcodificación transcodifica el contenido en respuesta a haber recibido la selección en el servidor.	11. El método de acuerdo con la reivindicación 1, en que además comprende generar una solicitud de la lista de reproducción en el dispositivo de usuario y comunicar la solicitud al decodificador desde una ubicación en la nube.	<i>Corresponde a la Rv 6 de la solicitud colombiana</i>
12. El sistema reclamado en la reivindicación 8, en donde el dispositivo del usuario genera una solicitud de la lista de reproducción y comunica la solicitud de la lista de reproducción al decodificador o comunica la solicitud de la lista de reproducción al decodificador a través de un satélite y de un extremo cabezal o comunica la solicitud de la lista de reproducción al decodificador desde el servidor en modo remoto respecto del decodificador.	12. El método de acuerdo con la reivindicación 1, que además comprende comunicar el contenido transcodificado al decodificador y en donde comunicar el contenido transcodificado al dispositivo de usuario comprende comunicar el contenido transcodificado al dispositivo de usuario desde una ubicación en la nube.	<i>Corresponde a la Rv 7 de la solicitud colombiana</i>
13. El sistema reclamado en la reivindicación 8, en donde el dispositivo de usuario comunica la solicitud de la lista de reproducción a la ubicación de la nube y la ubicación de la nube comunica la solicitud al decodificador.	13. El método de acuerdo con la reivindicación 1, que además comprende almacenar una pluralidad de contenido en un dispositivo de almacenamiento asociado con un servidor localizado en modo remoto respecto de un decodificador.	<i>Cancelada en la solicitud Colombiana</i>

14. El sistema reclamado de la reivindicación 8, en donde la ubicación en la nube comunica un contenido transcodificado al dispositivo del usuario desde una ubicación en la nube o en donde el decodificador comunica el contenido transcodificado al dispositivo del usuario o en donde el servidor asociado con el dispositivo de transcodificación comunica el contenido transcodificado al dispositivo del usuario.	14. El método de acuerdo con la reivindicación 1, en donde comunicar el contenido transcodificado comprende comunicar el contenido transcodificado desde un servidor asociado con el dispositivo transcodificador al dispositivo de usuario.	<i>Corresponde a la Rv 7 de la solicitud Colombiana</i>
	15. El método de acuerdo con la reivindicación 14, que además comprende comunicar la lista de reproducción a una ubicación en la nube desde el decodificador.	<i>Cancelada en la solicitud Colombiana</i>
	16. Un sistema, en donde comprende: una ubicación en la nube que comprende un dispositivo transcodificador que transcodifica el contenido correspondiente para formar contenido transcodificado y comunicar el contenido transcodificado un decodificador que recibe el contenido transcodificado y genera una lista de reproducción correspondiente al contenido transcodificado almacenado en él; un dispositivo de usuario en comunicación con una ubicación en la nube y el decodificador a través de una red, dicho dispositivo de usuario revisa la lista de reproducción y selecciona un primer título de contenido desde la lista de reproducción para formar una selección; y el decodificador comunica el contenido transcodificado correspondiente a la selección al dispositivo de usuario.	<i>Corresponde a la Rv 8 de la solicitud Colombiana. La diferencia entre las dos reivindicaciones, está en que en la correspondiente estadounidense se incluyó el paso de comunicar el contenido transcodificado.</i>

	17. El sistema de acuerdo con la reivindicación 16, en donde el decodificador comunica la lista de reproducción a la ubicación en la nube.	Corresponde a la Rv 9 de la solicitud colombiana. La diferencia entre las dos reivindicaciones, está en que en la correspondiente colombiana se incluyó el paso de en donde la ubicación en la nube comunica la lista de reproducción al dispositivo del usuario.
	18. El sistema de acuerdo con la reivindicación 16, en donde el decodificador comunica el contenido a través de la red al dispositivo transcodificador para formar el contenido transcodificado.	Cancelada en la solicitud Colombiana
	19. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo transcodificador recibe contenido simultáneamente con el decodificador y en donde el dispositivo transcodificador transcodifica el contenido.	Corresponde a la Rv 10 de la solicitud colombiana
	20. El sistema de acuerdo con la reivindicación 16, en donde el decodificador recibe la selección.	Cancelada en la solicitud Colombiana
	21. El sistema de acuerdo con la reivindicación 16, en donde el decodificador almacena el contenido en el decodificador.	Cancelada en la solicitud Colombiana
	22. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo de usuario genera una solicitud de la lista de reproducción y comunica la solicitud de la lista de reproducción al decodificador.	Corresponde a la Rv 12 de la solicitud colombiana

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	23. El sistema de acuerdo con la reivindicación 22 que además comprende un extremo de cabezal y un satélite, en donde el dispositivo de usuario comunica la solicitud de la lista de reproducción al decodificador a través del satélite y el extremo de cabezal.	<i>Corresponde a la Rv 12 de la solicitud colombiana</i>
	24. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo de usuario genera una solicitud de la lista de reproducción y comunica la solicitud de la lista de reproducción al decodificador desde un servidor localizado en modo remoto respecto del decodificador.	<i>Corresponde a la Rv 12 de la solicitud colombiana</i>
	25. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo transcodificador almacena el contenido transcodificado en un dispositivo de almacenamiento localizado en modo remoto respecto del decodificador.	<i>Cancelada en la solicitud Colombiana</i>
	26. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo de usuario comunica una solicitud de la lista de reproducción a la ubicación en la nube y la ubicación en la nube comunica la solicitud al decodificador.	<i>Corresponde a la Rv 13 de la solicitud colombiana</i>
	27. El sistema de acuerdo con la reivindicación 16, en donde la ubicación en la nube comunica el contenido transcodificado al decodificador.	<i>Cancelada en la solicitud Colombiana</i>

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	28. El sistema de acuerdo con la reivindicación 16, en donde un dispositivo de almacenamiento almacena una pluralidad de contenido, localizado en modo remoto respecto del decodificador.	<i>Cancelada en la solicitud Colombiana</i>
	29. El sistema de acuerdo con la reivindicación 16, en donde un servidor asociado con el dispositivo transcodificador comunica el contenido transcodificado al dispositivo de usuario.	<i>Corresponde a la Rv 14 de la solicitud colombiana</i>
	30. El sistema de acuerdo con la reivindicación 29, en donde el decodificador comunica la lista de reproducción a la ubicación en la nube desde el decodificador.	<i>Cancelada en la solicitud Colombiana</i>

REIVINDICACIONES CONCEDIDAS USPTO

US 8,887,207

1. Un método que comprende:

Transcodificar el contenido en un dispositivo transcodificador para formar el contenido transcodificado;

Comunicar el contenido transcodificado a un decodificador;

Generar una lista de reproducción correspondiente al contenido transcodificado almacenado en el decodificador;

Comunicar la lista de reproducción a un dispositivo de usuario;

Seleccionar un primer título de contenido de la lista de reproducción en el dispositivo de usuario para formar una selección; y

Comunicar el contenido transcodificado correspondiente a la selección desde el decodificador al dispositivo de usuario.

2. El método de acuerdo con la reivindicación 1, en donde generar la lista de reproducción comprende generar la lista de reproducción y comunicar la lista de reproducción a una ubicación en la nube.

3. El método de acuerdo con la reivindicación 1, en donde transcodificar el contenido comprende comunicar el contenido simultáneamente al decodificador y el dispositivo transcodificador, en donde el dispositivo transcodificador forma el contenido transcodificado.

4. El método de acuerdo con la reivindicación 1, en donde transcodificar el contenido comprende comunicar el contenido desde el decodificador a través de una red al dispositivo transcodificador para formar el contenido transcodificado.

5. El método de acuerdo con la reivindicación 1, en donde transcodificar el contenido se ejecuta en respuesta a recibir una solicitud en un servidor asociado con el dispositivo transcodificador.

6. El método de acuerdo con la reivindicación 1, que además comprende comunicar la selección al decodificador.

7. El método de acuerdo con la reivindicación 1 que además comprende almacenar el contenido transcodificado en el decodificador.

8. El método de acuerdo con la reivindicación 1 que además comprende generar una solicitud de la lista de reproducción en el dispositivo de usuario y comunicar la solicitud de la lista de reproducción al decodificador.

9. El método de acuerdo con la reivindicación 8, en donde comunicar la solicitud de la lista de reproducción al decodificador comprende comunicar la solicitud a través de un satélite.

10. El método de acuerdo con la reivindicación 1, que además comprende generar una solicitud de la lista de reproducción en el dispositivo de usuario y comunicar la solicitud de la lista de reproducción al decodificador desde un servidor localizado en modo remoto respecto del decodificador.

11. El método de acuerdo con la reivindicación 1, en que además comprende generar una solicitud de la lista de reproducción en el dispositivo de usuario y comunicar la solicitud al decodificador desde una ubicación en la nube.

12. El método de acuerdo con la reivindicación 1, que además comprende comunicar el contenido transcodificado al decodificador y en donde comunicar el contenido transcodificado al dispositivo de usuario comprende comunicar el contenido transcodificado al dispositivo de usuario desde una ubicación en la nube.

13. El método de acuerdo con la reivindicación 1, que además comprende almacenar una pluralidad de contenido en un dispositivo de almacenamiento asociado con un servidor localizado en modo remoto respecto de un decodificador.

14. El método de acuerdo con la reivindicación 1, en donde comunicar el contenido transcodificado comprende comunicar el contenido transcodificado desde un servidor asociado con el dispositivo transcodificador al dispositivo de usuario.

15. El método de acuerdo con la reivindicación 14, que además comprende comunicar la lista de reproducción a una ubicación en la nube desde el decodificador.

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16. Un sistema, en donde comprende:

una ubicación en la nube que comprende un dispositivo transcodificador que transcodifica el contenido correspondiente para formar contenido transcodificado y comunicar el contenido transcodificado

un decodificador que recibe el contenido transcodificado y genera una lista de reproducción correspondiente al contenido transcodificado almacenado en él;

un dispositivo de usuario en comunicación con una ubicación en la nube y el decodificador a través de una red, dicho dispositivo de usuario revisa la lista de reproducción y selecciona un primer título de contenido desde la lista de reproducción para formar una selección; y

el decodificador comunica el contenido transcodificado correspondiente a la selección al dispositivo de usuario.

17. El sistema de acuerdo con la reivindicación 16, en donde el decodificador comunica la lista de reproducción a la ubicación en la nube.

18. El sistema de acuerdo con la reivindicación 16, en donde el decodificador comunica el contenido a través de la red al dispositivo transcodificador para formar el contenido transcodificado.

19. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo transcodificador recibe contenido simultáneamente con el decodificador y en donde el dispositivo transcodificador transcodifica el contenido.

20. El sistema de acuerdo con la reivindicación 16, en donde el decodificador recibe la selección.

21. El sistema de acuerdo con la reivindicación 16, en donde el decodificador almacena el contenido en el decodificador.

22. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo de usuario genera una solicitud de la lista de reproducción y comunica la solicitud de la lista de reproducción al decodificador.

23. El sistema de acuerdo con la reivindicación 22 que además comprende un extremo de cabezal y un satélite, en donde el dispositivo de usuario comunica la solicitud de la lista de reproducción al decodificador a través del satélite y el extremo de cabezal.

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24. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo de usuario genera una solicitud de la lista de reproducción y comunica la solicitud de la lista de reproducción al decodificador desde un servidor localizado en modo remoto respecto del decodificador.

25. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo transcodificador almacena el contenido transcodificado en un dispositivo de almacenamiento localizado en modo remoto respecto del decodificador.

26. El sistema de acuerdo con la reivindicación 16, en donde el dispositivo de usuario comunica una solicitud de la lista de reproducción a la ubicación en la nube y la ubicación en la nube comunica la solicitud al decodificador.

27. El sistema de acuerdo con la reivindicación 16, en donde la ubicación en la nube comunica el contenido transcodificado al decodificador.

28. El sistema de acuerdo con la reivindicación 16, en donde un dispositivo de almacenamiento almacena una pluralidad de contenido, localizado en modo remoto respecto del decodificador.

29. El sistema de acuerdo con la reivindicación 16, en donde un servidor asociado con el dispositivo transcodificador comunica el contenido transcodificado al dispositivo de usuario.

30. El sistema de acuerdo con la reivindicación 29, en donde el decodificador comunica la lista de reproducción a la ubicación en la nube desde el decodificador.



US008887207B2

(12) **United States Patent**
Syed et al.

(10) **Patent No.:** **US 8,887,207 B2**
(45) **Date of Patent:** **Nov. 11, 2014**

(54) **METHOD AND SYSTEM FOR REMOTELY
TRANSCODING CONTENT**

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(*) Notice: Subject to any disclaimer, the term of this
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H04N 7/20 (2006.01)

(52) U.S. Cl.
USPC **725/68; 725/100; 725/110; 725/133**

(58) **Field of Classification Search**
None
See application file for complete search history.

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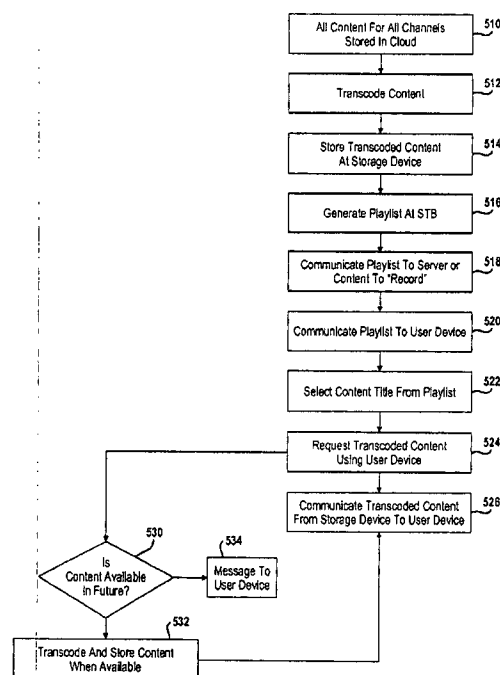
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Primary Examiner --- Chenea Smith

(57) **ABSTRACT**

A system and method for remotely transcoding content includes a set top box generating a playlist corresponding to content titles stored in a memory of the set top box. A user device is in communication with the cloud location and the set top box through a network. The user device reviews the playlist and selects a first content title from the playlist to form a selection. The cloud location includes a transcoder device transcoding content corresponding to the selection to form transcoded content. One of the cloud location and the set top box communicates the transcoded content to the user device.

30 Claims, 7 Drawing Sheets



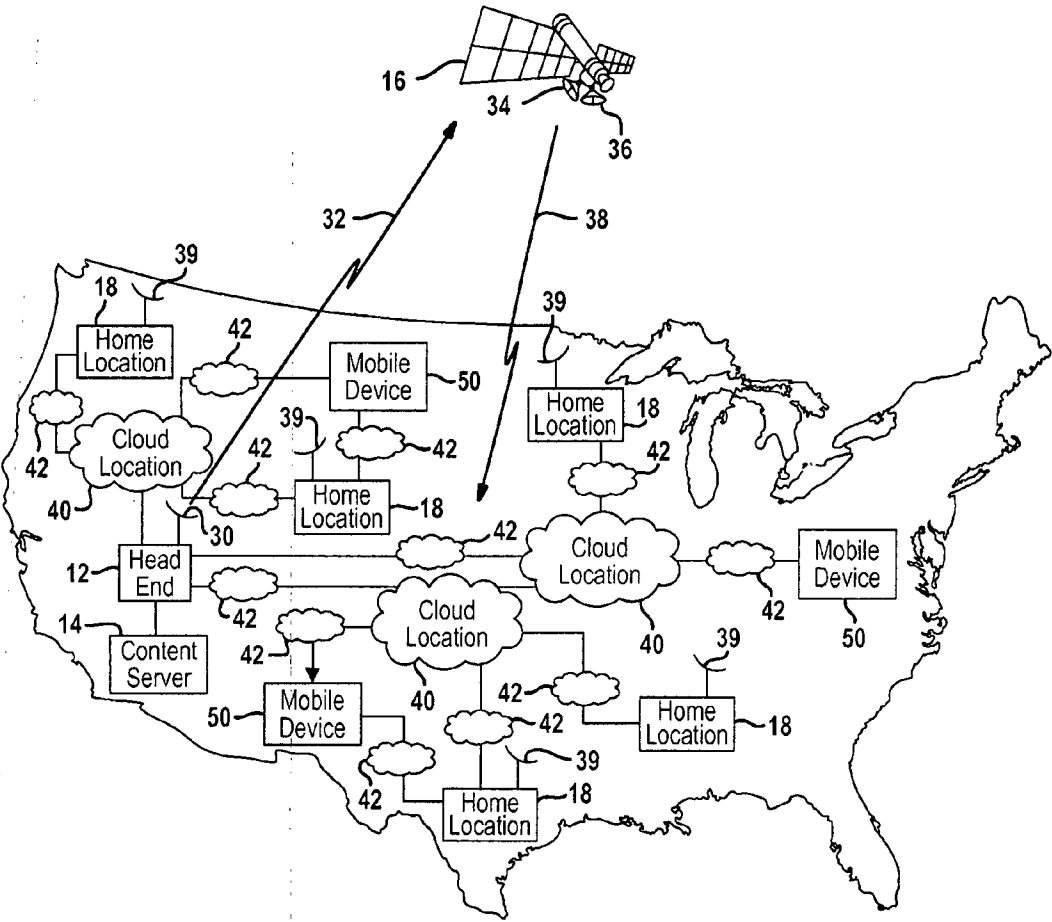


FIG. 1

15

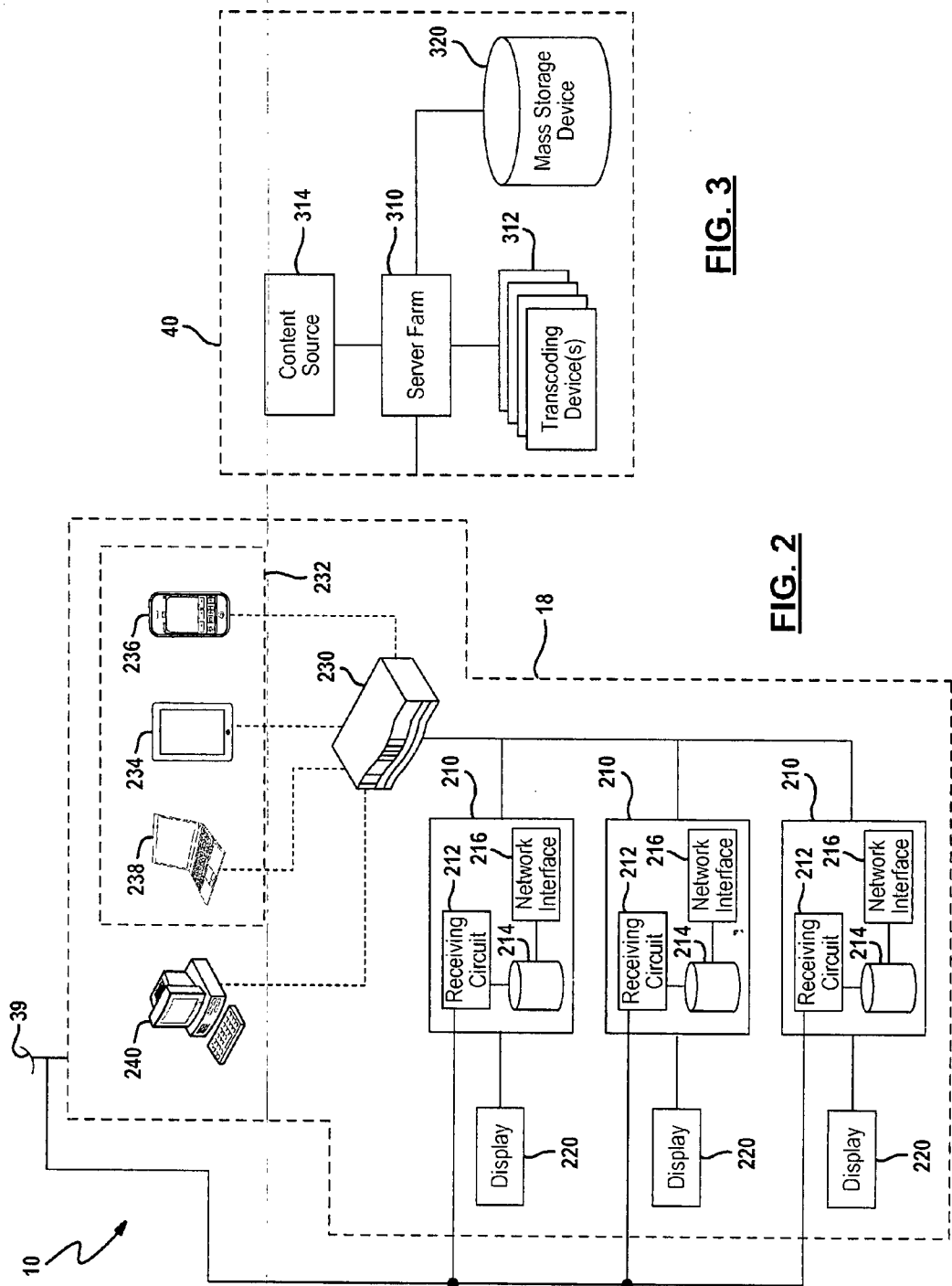
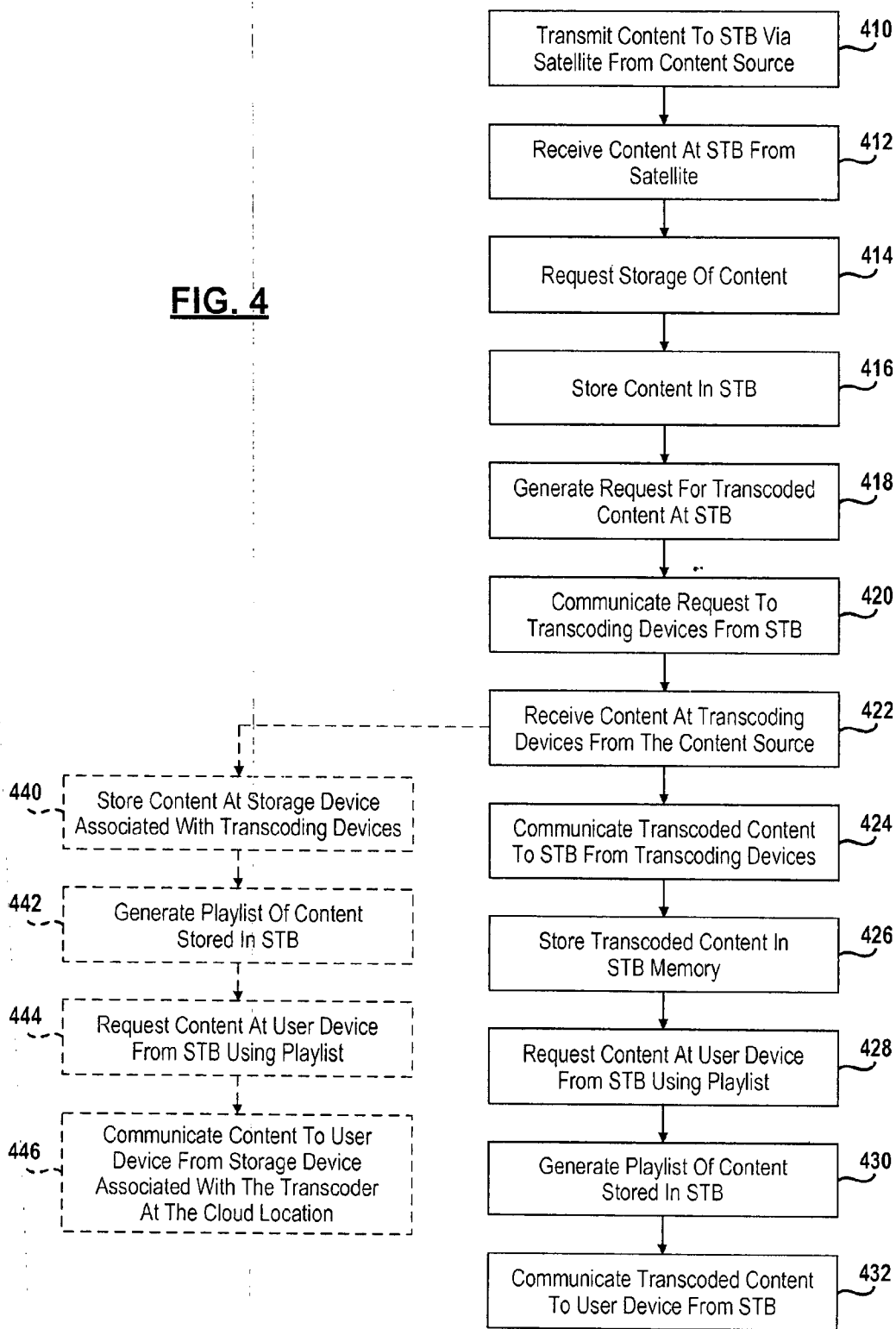


FIG. 3

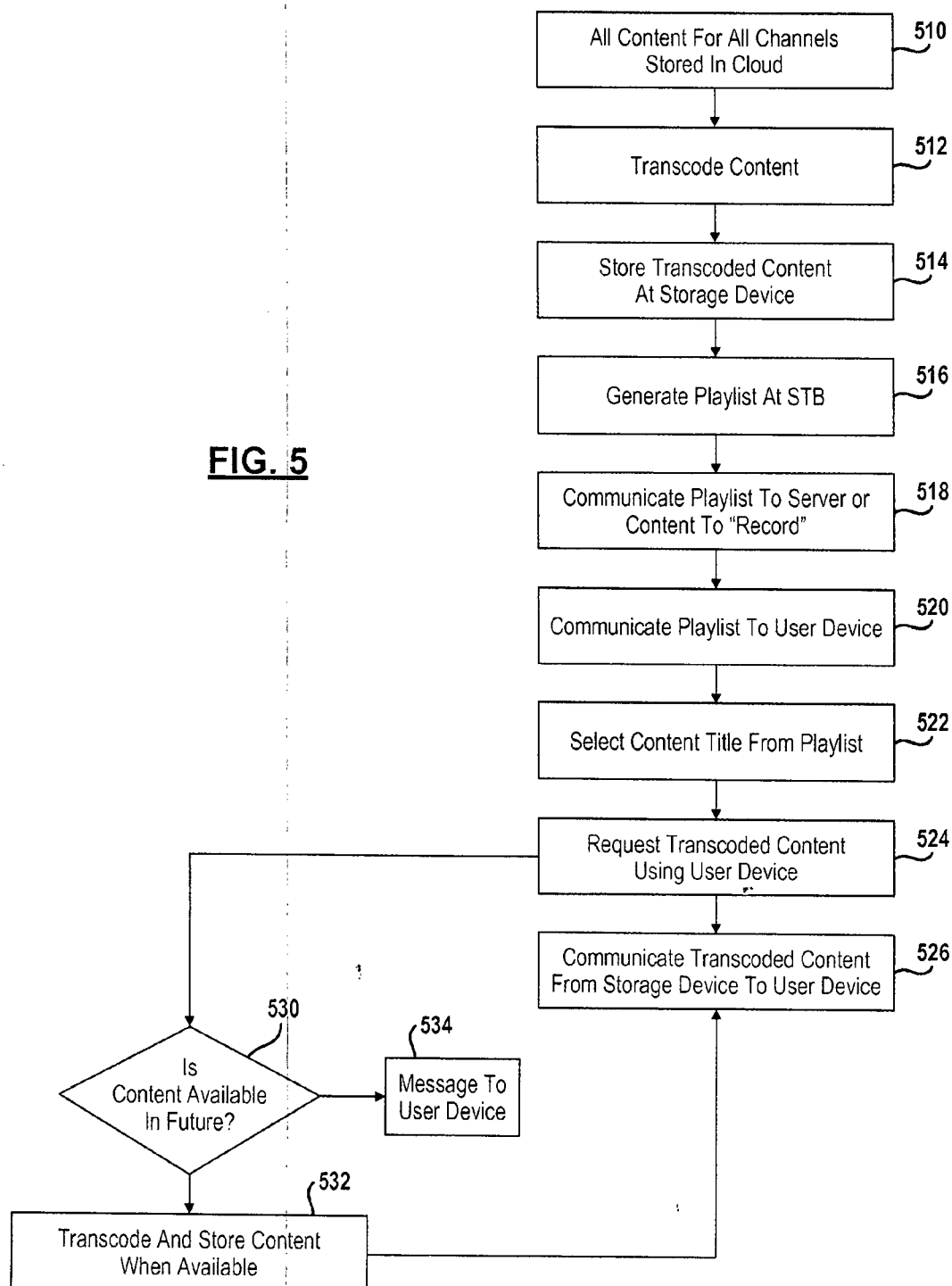
FIG. 2

16

FIG. 4



1x

FIG. 5

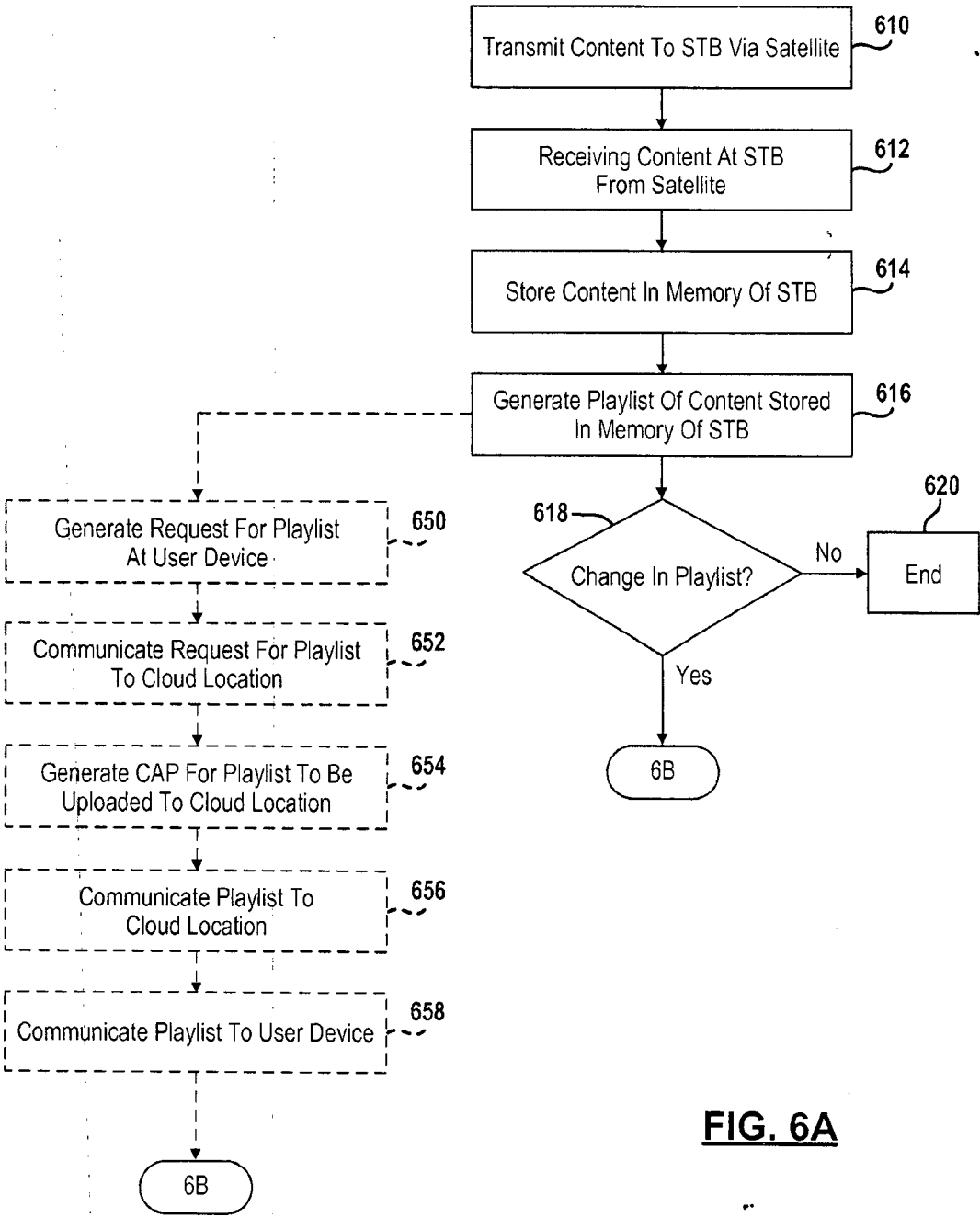
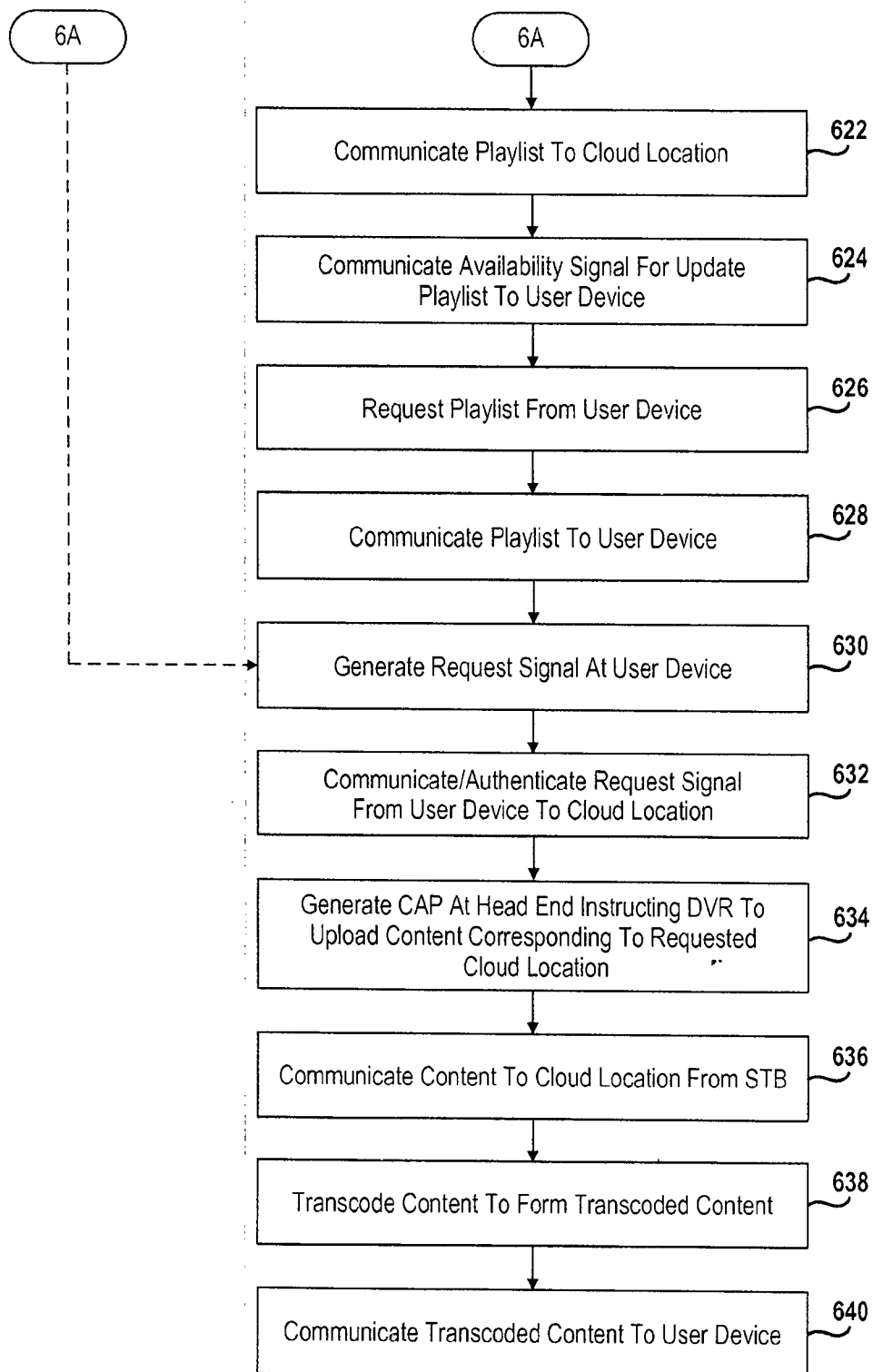


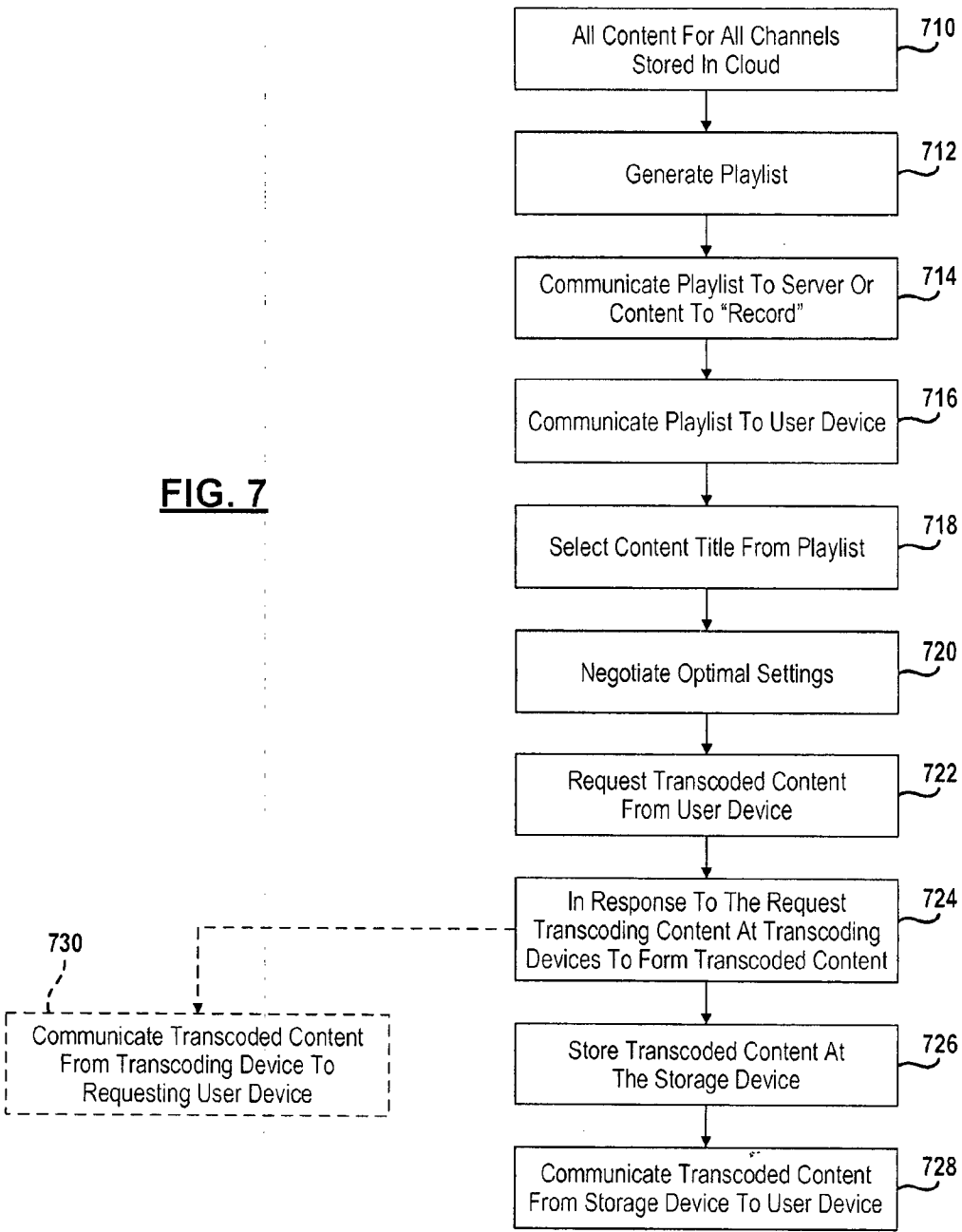
FIG. 6A

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**FIG. 6B**

20

FIG. 7



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METHOD AND SYSTEM FOR REMOTELY TRANSCODING CONTENT

TECHNICAL FIELD

The present disclosure relates generally to a method and system for transcoding content, and, more specifically, to a method and system for remotely transcoding content for distribution to user devices in a content distribution system.

BACKGROUND

The statements in this section merely provide background information related to the present disclosure and may not constitute prior art.

Content programming providers continually provide different ways to provide content to customers. In a traditional sense, content is received at a set top box and is distributed to a display or television associated therewith. Set top boxes may also include a digital video recorder for recording the content instructed by the user. Specific programming or various series may be recorded within the digital video recorder.

Some systems such as the DIRECTV® Nomad® system allow the content to be viewed by a mobile device. The Nomad® system uses a transcoder within the home to transcode the content stored within the set top box into a format desired for the destination user device.

One drawback to providing a transcoder within a location is that the computer chips used for transcoding may not be capable of transcoding into future formats. Providing each subscriber with various equipment is also expensive. Further, maintenance and other customer support are also costly when equipment is provided to each individual customer.

SUMMARY

The present disclosure provides a system and method for providing remote transcoding of content in a content distribution system.

In one aspect of the disclosure, a method includes generating a playlist corresponding to content titles stored in a set top box, communicating the playlist to a user device, selecting a first content title from the playlist at the user device to form a selection, transcoding content corresponding to the selection at a transcoder device to form transcoded content, and communicating the transcoded content to the user device.

In a further aspect of the disclosure, a system for remotely transcoding content includes a set top box generating a playlist corresponding to content titles stored therein. A user device is in communication with the cloud location and the set top box through a network. The user device reviews the playlist and selects a first content title from the playlist to form a selection. The cloud location includes a transcoder device transcoding content corresponding to the selection to form transcoded content. One of the cloud location and the set top box communicates the transcoded content to the user device.

Further areas of applicability will become apparent from the description provided herein. It should be understood that the description and specific examples are intended for purposes of illustration only and are not intended to limit the scope of the present disclosure.

DRAWINGS

The drawings described herein are for illustration purposes only and are not intended to limit the scope of the present disclosure in any way.

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FIG. 1 is a high-level block diagrammatic view of a content distribution system according to the present disclosure.

FIG. 2 is a block diagrammatic view of a home system according to the present disclosure.

FIG. 3 is a block diagrammatic view of a cloud location.

FIG. 4 is a flowchart of a first method for operating the present disclosure.

FIG. 5 is a flowchart of a second method for operating the present disclosure.

FIGS. 6A and 6B are a flowchart of a third method for operating the present disclosure.

FIG. 7 is a flowchart of a fourth method for transcoding content according to the present disclosure.

DETAILED DESCRIPTION

The following description is merely exemplary in nature and is not intended to limit the present disclosure, application, or uses. For purposes of clarity, the same reference numbers will be used in the drawings to identify similar elements. As used herein, the term module refers to an Application Specific Integrated Circuit (ASIC), an electronic circuit, a processor (shared, dedicated, or group) and memory that execute one or more software or firmware programs, a combinational logic circuit, and/or other suitable components that provide the described functionality. As used herein, the phrase at least one of A, B, and C should be construed to mean a logical (A or B or C), using a non-exclusive logical or. It should be understood that steps within a method may be executed in different order without altering the principles of the present disclosure.

Referring now to FIG. 1, a content distribution system 10 includes a head end 12 that is used for processing, security and as a transmission source. Of course, the various functions may be physically separated. A plurality of content providers, one of which is shown at reference numeral 14 and a satellite 16, is set forth. The satellite 16 is used to communicate different types of data or different portions of data from the head end 12 to a home location 18 and components set forth therein. As is illustrated, a map of the United States 20 is set forth with a plurality of home locations 18. The home locations 18 represent a residence, business or multiple-dwelling unit. Various home devices are represented by the home locations 18.

The head end 12 may communicate with the satellite 16 using an uplink antenna 30. The uplink antenna 30 generates an uplink signal 32 which is received at a receiving antenna 34. A downlink antenna 36 generates a downlink signal 38 that is communicated to a receiving antenna 39 associated with each home location 18. Various types of content may be provided through the content distribution system 10 including linear content, pay-per-view (PPV) and streaming content may all be provided to the home location 18.

Security of assets broadcast via the satellite 16 may be established by applying encryption and decryption to assets or content during content processing and/or during broadcast (i.e., broadcast encryption). For example, an asset may be encrypted based upon a control word (CW) known to the head end 12 and known to the home location 18 (and the receiving devices therein) authorized to view and/or playback the asset. In the illustrated example content distribution system 10, for each asset the head end 12 generates a control word packet (CWP) that includes, among other things, a time stamp, authorization requirements and an input value and then determines the control word (CW) for the asset by computing a cryptographic hash of the contents of the CWP. The CWP is also broadcast to the receiving devices in the home locations 18 via the satellite 16. The devices authorized to view and/or

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playback, the broadcast encrypted asset will be able to correctly determine the CW by computing a cryptographic hash of the contents of the received CWP. If the device is not authorized, it will not be able to determine the correct CW that enables decryption of the received broadcast encrypted asset. The CW may be changed periodically (e.g., every 30 seconds) by generating and broadcasting a new CWP. In an example, a new CWP is generated by updating the timestamp included in each CWP. Alternatively, a CWP could directly convey a CW either in encrypted or unencrypted form. Other examples of coordinated encryption and decryption abound, including for example, public/private key encryption and decryption. Thus, a user device may be deauthorized by not allowing a user device access to the proper control word.

The control word packet may be communicated with other control data as a conditional access packet (CAP). The CAP may be used to provide tuning data, geographic location profiles or other data. The CAP may also be used to provide instructions to the set top box to perform specific tasks such as upload a playlist or upload content stored within a receiving device.

A plurality of geographically spaced cloud locations 40 are set forth within the figures. The cloud locations 40, as will be described below, may include cloud devices such as, but not limited to, servers, transcoding devices and storage devices. The cloud location 40 is in communication with the home location 18 and the head end 12. The cloud location 40 is in communication with the home locations 18 through a network 42. The network 42 may be one network or a plurality of networks acting together. For example, the network 42 may be a broadband network and may be wired, optical or wireless. Cellular telephone technology and public switched telephone networks may also be used. The network 42 may include the Internet. The network 42 allows various types of communication to occur between the home location 18 and the cloud location 40. By way of example, the home location 18 may communicate a playlist to the cloud location 40. Further, content stored within the home location 18 may be provided to the cloud location 40 for transcoding. Other types of signals are exchanged between the home location 18 and cloud location 40 as will be described in the examples below.

A mobile device 50 may also be in communication with the home location 18 through the network 42. The mobile device 50 may provide various request signals that may communicate directly to the home location 18. Further, the mobile device 50 may be in communication with the cloud location 40 through the network 42. The mobile device 50 may be in communication with the cloud location 40 for obtaining a playlist or transcoded content. Of course, other signals may be exchanged between the cloud location 40 and the mobile device 50 as will be set forth in the examples below. A plurality of cloud locations 40 may be provided throughout the country. By providing a plurality of cloud locations 40, the closest cloud location 40 to the mobile device 50 may be used for transcoding and other distribution.

The cloud location 40 and the head end 12 may also be coupled together through the network 42. Various authorizations, content and other data may be exchanged therebetween.

Referring now to FIG. 2, one example of a home location 18 is set forth. The home location 18 may include one or more receiving devices 210 such as a set top box (STB). Each receiving device 210 may include various receiving circuits 212 used for receiving content through the antenna 39. The antenna 39 may be used for receiving content from a satellite. However, as mentioned above, the receiving device 210 may also be used for non-satellite configurations. That is, the

receiving device 210 may also be used for receiving over-the-air terrestrial signals and cable or fiber optic signals. The functions of the receiving circuits 212 may be adjusted for the different types of transmission technologies. The receiving circuits 212 may include, for example, a tuner for receiving a particular channel or channels, a decoder and a forward error-correcting encoder.

The receiving devices 210 may also include a storage device 214. The storage device 214 may store various content, lists and other data therein. The storage device 214 may be a memory such as a hard disk drive or solid state memory. The storage device 214 may also be different kinds of memory such as a digital video recorder and flash memory. The storage device 214 may also be used to store play lists corresponding to a list of content that is stored within the storage device 214.

A network interface 216 may also be included within the receiving device 210. The network interface 216 may provide a broadband interface so that various content, playlists and other data may be exchanged with other devices such as the cloud location 40.

Each receiving device 210 may include a display 220 associated therewith. The display 220 may be a television or other type of monitor. The display 220 may generate both video and audio displays.

The home location 18 may also have a router 230 associated therewith. If more than one receiving device 210 is included within the home location 18, each of the receiving devices 210 may be in communication with the router 230.

The router 230 is also illustrated in communication with other devices including mobile devices 232 that may include a tablet device 234, a mobile computer 236, and a cellular telephone 238. A computer 240 may also be in communication with the router 230. Each of the devices 234-240 may be referred to as a user device. As will be further described below, the mobile devices 232 may also be in communication with the internet or other network without being in a home network. To communicate with the cloud location 40 and the home location 18, a broadband connection may be established through the network 42 illustrated in FIG. 1.

Referring now to FIG. 3, the cloud location 40 is illustrated in further detail. The cloud location 40 may include a server farm 310 that is in communication with the network 42. The server farm 310 may include at least one server. However, a plurality of servers is likely in a commercial embodiment. A plurality of transcoding devices 312 are in communication with the server farm 310. The transcoding devices 312 are configured to provide various different types of transcoding for different types of devices. Each device may provide a different type or types of transcoding. The number of transcoding devices 312 depends upon various factors including the amount of customers in the system and the desired throughput of the system.

The server farm 310 may also be in communication with a content source 314. The content source 314 may obtain content through the network 42 or from another type of communication device such as a satellite 16. As will be described below in various examples, the content source may receive all of the content broadcast by a content provider through the satellite or other content provider.

The server farm 310 may be in communication with a mass storage device 320. The mass storage device 320 may be used for the storage of various types of data including playlists, content, transcoded content and metadata associated with the content. In one example, the mass storage device captures all the content broadcasted by the satellite.

Referring now to FIG. 4, a first method of remotely transcoding content is set forth. In this example, the transcod-

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ing devices are provided at the cloud location 40. Storage for the transcoded content is within the set top boxes (STBs) and transcoding takes place automatically when user recordings are initiated at the receiving device or set top box. By way of example, the receiving device will be described as a set top box and satellite transmission is used.

In step 410, content is transmitted to the set top box by way of the satellite from the content source. In step 412, content is received at the set top box from the satellite. In step 414, content is requested to be stored in the set top box. Requesting of content may be initiated through a user interface displayed on the display 220 illustrated in FIG. 2. Requesting storage of content may also be initiated using a mobile user device, a voice-activated system, or a remotely located website. Instructions for storing the content including the time, channel and other data used for retrieving the content is set forth. For a satellite system this may include the transponder location.

In step 416, content is stored in the set top box in response to the request. In step 418, a request for transcoded content is generated at the set top box. The request for transcoded content may be initiated in response to the request for the storage of content. A user may be prompted to describe the device or format into which the content may be transcoded. Thus, some negotiation may take place between the cloud and the user device. A device type identifier may be included in the request signal. Step 418 may also be performed automatically. In step 420, a request to transcode is communicated to the transcoding devices from the set top box. The request to transcode is a signal provided through the network 42 illustrated in FIG. 1. A request to transcode may also include the content itself that is stored within the set top box. In step 422, the content may also be received in parallel to the set top box through the content source 314 illustrated in FIG. 3. The transcoding devices 312 may thus simultaneously receive the content and transcode the content according to the request received from step 420. In step 424, the transcoded content is communicated in a transcoded content signal to the set top box from the transcoding devices. The transcoded content is stored in the set top box memory in step 426. In step 428, a playlist of the content stored on the set top box is generated. In step 430, a request for stored content is generated at a user device such as a mobile user device. The request for content is communicated from the user device to the set top box. The request for content corresponds to a content title that appears in the playlist. As mentioned above, the playlist is a list of titles of content available or stored within the set top box. In addition, the playlist may include content available in the cloud location. Such content may correspond to a subscription. In step 432, the transcoded content is communicated to the user device from the set top box. More specifically, the transcoded content is provided to the user device in a signal from the memory of the set top box.

Referring back to step 422, an alternative process for the last several steps illustrated in FIG. 4 is set forth. In step 440, content is stored at the storage device associated with the transcoding devices after the content is transcoded. In step 442, a playlist of content stored in the set top box is generated. In step 444, a request for content at the user device from the set top box is generated using the playlist. In step 446, content is communicated to the user device from the storage device associated with the transcoder at the cloud location. Thus, in the alternative example, the transcoded content need not be stored within the set top box.

Referring now to FIG. 5, a second method for remotely transcoding content is set forth. In this example, the transcod-

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ing devices 312 are also located within the cloud location. Both the original and transcoded content are stored within the cloud.

In step 510, all of the content for all of the channels is stored within the storage device 320 at the cloud location. The size of the storage device is relatively large. Thus, the content source 314 receives all of the content broadcasted by the satellite or through another means such as a cable or optical fiber. In step 512, the content is transcoded at the cloud location. In step 514, the content is stored in the storage device of the cloud location.

In step 516, playlists of content desired to be stored within the set top box may be generated. The playlist may be generated in a similar manner to steps 414 and 416. Simultaneously, content may also be recorded at the set top box in only one format useful for playback directly at the set top box and display associated therewith.

In step 518, a playlist generated from the content desired to be stored within the set top box is communicated to the server associated with the cloud location 40. In step 520, the playlist is also communicated to the user device in a playlist signal. In step 522, a content title is selected to form a selection from the playlist. The selection is communicated to the cloud location 40. More specifically, the server farm 310 may receive the content title from the playlist to form a request. In step 524, the request for transcoded content is communicated in a request signal from the user device to the server farm 310 of the cloud location 40. In step 526, the transcoded content is communicated from the cloud location and the storage device 320 to the user device in a transcoded content signal.

Alternate steps may also be provided for future available content. Step 530 determines whether content is going to be available in the future. This step is performed when content is not immediately available from the stored transcoded content. When transcoded content will be available in the future, step 532 transcodes the content when the content becomes available. The transcoded content may then be stored in the storage device. The content may then be communicated to the user device in step 526 as described above. In step 530, when the content is not going to be available in the future, step 534 generates a message that is communicated to the user device to inform the user that the content is not currently available and will not be available in the future.

Alternatively, transcoded content may be transcoded on demand and transferred to the requesting user device directly from the transcoding device without first being stored.

Referring now to FIGS. 6A and 6B, another method for remotely transcoding content is set forth. In this example, the playlist and recordings are uploaded to the cloud location and the playlist and recordings may be downloaded to mobile or other user devices.

In step 610, content is transmitted to the receiving device such as a set top box by way of satellite. In this example, a set top box will be used as an example of a receiving device. In step 612, content is received at the set top box from the satellite. In step 614, the content is stored in the memory of the set top box. The memory may, for example, be a digital video recorder. In step 616, a playlist of the content stored in the memory of the set top box is generated. This process is described in detail above. In step 616, it is determined whether a change in the playlist has occurred. If no change in the playlist has occurred, the process ends in step 620. If a change has occurred in step 618, step 622 communicates the playlist to the cloud location. The cloud location may consist of the server farm 310 illustrated in FIG. 3. In step 624, an availability signal may be communicated with the user devices associated with the updated playlist.

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In step 626, the playlist may be requested by a particular user device using a request signal. In step 628, the playlist is communicated to the user device through the network using a playlist signal.

In step 630, a request signal is generated at the user device requesting content therefrom. The request signal may be communicated to the cloud location and authenticated at the cloud location in step 632. In step 634, a conditional access packet is generated at the head end instructing the storage device such as the digital video recorder to upload content corresponding to the requested cloud location. The conditional access packet may be originally requested to be generated by the cloud location in communication with the user device and transmitted through the network to the head end. In step 636, the content is communicated to the cloud location from the set top box. Instructions are provided in the conditional access packet signal for uploading the content to the particular cloud location. In step 638, the content from the set top box is transcoded to form transcoded content. In step 640, the transcoded content is communicated to the user device in a transcoded content signal. The transcoded content is transcoded into a format suitable for the requesting user device.

Referring back to step 616, alternative steps may be performed. In step 650, a request for a playlist is generated in a request signal at the user device. The request signal may be communicated to a cloud location in step 652. In step 654, a conditional access packet (CAP) signal is generated in response to the request signal. The conditional access packet signal may contain instructions for the user device to form a playlist and communicate the playlist to the cloud location. The cloud location may include an address for communicating the playlist thereto. The cloud location may be chosen based upon the relative position of the user device so that the cloud location is closest to the requesting user device.

In step 656, the playlist is communicated from the set top box to the cloud location. In step 658, the playlist is communicated to the user device from the cloud location. After step 658, steps 630-640 are performed.

Referring now to FIG. 7, a fourth method for remotely transcoding content is set forth. In this example, the transcoding devices 312 are also located within the cloud location. Both the original and transcoded content are stored within the cloud and the initiation of the transcoding operation is performed in response to a request for transcoded content from a user device.

In step 710, all of the content for all of the channels is stored within the storage device 320 at the cloud location. The size of the storage device is relatively large. Thus, the content source 314 receives all of the content broadcasted by the satellite or through another means such as a cable or optical fiber. In step 712, playlists of content is generated. The playlist may be generated in a similar manner to steps 414 and 416. The playlist may also include content available from the cloud location (stored or about to be stored). Simultaneously, content may also be recorded at the set top box in only one format useful for playback directly at the set top box and display associated therewith.

In step 714, a playlist generated from the content desired to be stored within the set top box is communicated to the server associated with the cloud location 40. In step 716, the playlist is communicated to the user device in a playlist signal. In step 718, a content title is selected to form a selection from the playlist. The selection is communicated to the cloud location 40. More specifically, the server farm 310 may receive the content title from the playlist to form a request. In step 720, the user device and server farm 310 intercommunicate to

negotiate optimal settings such as the user device resolution, encoding formats, bit rates supported and encryption formats supported. Such negotiation may take place in any of the methods described above. In step 722, the request for transcoded content is communicated in a request signal from the user device to the server farm 310 of the cloud location 40. In step 724, the request for transcoded content at the transcoding devices is used to form transcoded content according to the negotiated settings including digital rights management, encoding, and resolution. In step 726, the transcoded content is stored at the storage device 320 of the cloud location as illustrated in FIG. 3. In step 728, the transcoded content is communicated from the cloud location and the storage device 320 to the user device in a transcoded content signal. The content may be streamed or downloaded based on the negotiation. A set top box may be used to communicate the content to the user device. The content may be communicated through the satellite or network to the set top box.

An alternative to steps 724-728 is set forth in step 730. In step 730, the transcoded content is transcoded on demand and transferred to the requesting user device directly from the transcoding device without first being stored at the storage device as set forth in step 524 above.

Those skilled in the art can now appreciate from the foregoing description that the broad teachings of the disclosure can be implemented in a variety of forms. Therefore, while this disclosure includes particular examples, the true scope of the disclosure should not be so limited since other modifications will become apparent to the skilled practitioner upon a study of the drawings, the specification and the following claims.

What is claimed is:

1. A method comprising:

transcoding content at a transcoder device to form transcoded content;

communicating the transcoded content to a set top box; generating a playlist corresponding to transcoded content stored in the set top box;

communicating the playlist to a user device;

selecting a first content title from the playlist at the user device to form a selection; and communicating the transcoded content corresponding to the selection from the set top box to the user device.

2. The method as recited in claim 1 wherein generating the playlist comprises generating the playlist and communicating the playlist to a cloud location.

3. The method as recited in claim 1 wherein transcoding content comprises communicating content simultaneously to the set top box and the transcode device wherein the transcoder device forms the transcoded content.

4. The method as recited in claim 1 wherein transcoding content comprises communicating content from the set top box through a network to the transcoder device to form transcoded content.

5. The method as recited in claim 1 wherein transcoding content is performed in response to receiving a request at a server associated with the transcoder device.

6. The method as recited in claim 1 further comprising communicating the selection to the set top box.

7. The method as recited in claim 1 further comprising storing the transcoded content in the set top box.

8. The method as recited in claim 1 further comprising generating a request for the playlist at the user device and communicating the request for the playlist to the set top box.

9. The method as recited in claim 8 wherein communicating the request for the playlist to the set top box comprises communicating the request through a satellite.

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10. The method as recited in claim 1 further comprising generating a request for the playlist at the user device and communicating the request for the playlist to the set top box from a server located remotely from the set top box.

11. The method as recited in claim 1 further comprising generating a request for the playlist at the user device and communicating the request to the set top box from a cloud location.

12. The method as recited in claim 1 further comprising communicating the transcoded content to the set top box and wherein communicating the transcoded content to the user device comprises communicating the transcoded content to the user device from a cloud location.

13. The method as recited in claim 1 further comprising storing a plurality of content in a storage device associated with a server located remotely from a set top box.

14. The method as recited in claim 1 wherein communicating transcoded content comprises communicating transcoded content from a server associated with the transcoder device to the user device.

15. The method as recited in claim 14 further comprising communicating the playlist to a cloud location from the set top box.

16. A system comprising:
a cloud location comprising a transcoder device transcoding content to form transcoded content and communicating the transcoded content;
a set top box receiving the transcoded content and generating a playlist corresponding to the transcoded content stored therein;
a user device in communication with the cloud location and the set top box through a network, said user device reviews the playlist and selects a first content title from the playlist to form a selection; and
the set top box communicating the transcoded content corresponding to the selection to the user device.

17. The system as recited in claim 16 wherein the set top box communicates the playlist to the cloud location.

18. The system as recited in claim 16 wherein the set top box communicates content through the network to the transcoder device to form transcoded content.

19. The system as recited in claim 16 wherein the transcoder device receives content simultaneously with the set top box and wherein the transcoder device transcodes the content.

20. The system as recited in claim 16 wherein the set top box receives the selection.

21. The system as recited in claim 16 wherein the set top box stores content in the set top box.

22. The system as recited in claim 16 wherein the user device generates a request for the playlist and communicates the request for the playlist to the set top box.

23. The system as recited in claim 22 further comprising a head end and a satellite, wherein the user device communicates the request for the playlist to the set top box through the satellite and the head end.

24. The system as recited in claim 16 wherein the user device generates a request for the playlist and communicates the request for the playlist to the set top box from a server located remotely from the set top box.

25. The system as recited in claim 16 wherein the transcoding device stores the transcoded content in a storage device located remotely from the set top box.

26. The system as recited in claim 16 wherein the user device communicates a request for the playlist to the cloud location and the cloud location communicates the request to the set top box.

27. The system as recited in claim 16 wherein the cloud location communicates transcoded content to the set top box.

28. The system as recited in claim 16 wherein a storage device stores a plurality of content located remotely from the set top box.

29. The system as recited in claim 16 wherein a server associated with the transcoder device communicates transcoded content to the user device.

30. The system as recited in claim 29 wherein the set top box communicates the playlist to the cloud location from the set top box.

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	Examiner Name	SMITH, Chenea
	Attorney Docket Number	PD-211009

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	20090228919	A1	2009-09-10	Zott et al.			
	2	20110083157	A1	2011-04-07	Addair, Jennifer			
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2187637	EP	A2	2010-05-19	Comcast Cable Communications, LLC		☐
	2	2009009106	WO	A1	2009-01-15	United Video Properties, Inc.		☐

2x

Receipt date: 04/25/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13349271	13349271 - GAU: 2421
	Filing Date		2012-01-12	
	First Named Inventor	Khader B. Syed		
	Art Unit	2421		
	Examiner Name	SMITH, Chenea		
	Attorney Docket Number	PD-211009		

	3	2011035443	WO	A1	2011-03-31	Sharif-Ahmadi et al.	☐
If you wish to add additional Foreign Patent Document citation information please click the Add button Add							
NON-PATENT LITERATURE DOCUMENTS							Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.					T ⁵
	1	International Search Report and Written Opinion dated April 19, 2013 in International Application No. PCT/US2013/021049 filed January 10, 2013 by Khader B. Syed et al.					☐
If you wish to add additional non-patent literature document citation information please click the Add button Add							
EXAMINER SIGNATURE							
Examiner Signature		/Chenea Smith/			Date Considered	07/01/2014	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.							

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Receipt date: 04/25/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13349271	13349271 - GAU: 2421
	Filing Date	2012-01-12	
	First Named Inventor	Khader B. Syed	
	Art Unit	2421	
	Examiner Name	SMITH, Chenea	
	Attorney Docket Number	PD-211009	

CERTIFICATION STATEMENT Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s): ☒ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1). OR ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2). ☐ See attached certification statement. ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith. ☐ A certification statement is not submitted herewith. SIGNATURE A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature. <table border="1"> <tr> <td>Signature</td> <td>/Todd N. Snyder/</td> <td>Date (YYYY-MM-DD)</td> <td>2013-04-25</td> </tr> <tr> <td>Name/Print</td> <td>Todd N. Snyder</td> <td>Registration Number</td> <td>41320</td> </tr> </table>				Signature	/Todd N. Snyder/	Date (YYYY-MM-DD)	2013-04-25	Name/Print	Todd N. Snyder	Registration Number	41320
Signature	/Todd N. Snyder/	Date (YYYY-MM-DD)	2013-04-25								
Name/Print	Todd N. Snyder	Registration Number	41320								
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.											

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Receipt date: 04/25/2013

13349271 - GAU: 2421

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

20991 7590 07/08/2014
THE DIRECTV GROUP, INC.
PATENT DOCKET ADMINISTRATION
CA / LA1 / A109
2230 E. IMPERIAL HIGHWAY
EL SEGUNDO, CA 90245

EXAMINER	
SMITH, CHENEA	
ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 07/08/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/349,271	01/12/2012	Khader B. Syed	PD-211009	5851

TITLE OF INVENTION: METHOD AND SYSTEM FOR REMOTELY TRANSCODING CONTENT

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	10/08/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.
If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.
If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".
For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20991 7590 07/08/2014
THE DIRECTV GROUP, INC.
PATENT DOCKET ADMINISTRATION
CA / LA1 / A109
2230 E. IMPERIAL HIGHWAY
EL SEGUNDO, CA 90245

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

	(Depositor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/349,271	01/12/2012	Khader B. Syed	PD-211009	5851

TITLE OF INVENTION: METHOD AND SYSTEM FOR REMOTELY TRANSCODING CONTENT

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	10/08/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
SMITH, CHENEA	2421	725-068000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
☐ Applicant asserting small entity status. See 37 CFR 1.27
☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/349,271	01/12/2012	Khader B. Syed	PD-211009	5851

EXAMINER	
SMITH, CHIENEA	

ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 07/08/2014

20991 7590 07/08/2014
THE DIRECTV GROUP, INC.
PATENT DOCKET ADMINISTRATION
CA / LA1 / A109
2230 E. IMPERIAL HIGHWAY
EL SEGUNDO, CA 90245

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Notice of Allowability	Application No. 13/349,271	Applicant(s) SYED ET AL.	
	Examiner CHENEA SMITH	Art Unit 2421	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/11/13.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-10, 12, 15-18, 20-23, 25-31, 34-37. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Examiner's Amendment/Comment |
| 2. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____ |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____ | |

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

2. Claims 1-10, 12, 15-18, 20-23, 25-31 and 34-37 are allowed.
3. The following is an examiner's statement of reasons for allowance: claims 1-10, 12, 15-18, 20-23, 25-31 and 34-37 are allowed because the prior art fails to specifically disclose or suggest the combined steps/elements of "transcoding content at a transcoder device to form transcoded content; communicating the transcoded content to a set top box; generating a playlist corresponding to transcoded content stored in the set top box; communicating the playlist to a user device; selecting a first content title from the playlist at the user device to form a selection; and communicating the transcoded content corresponding to the selection from the set top box to the user device", as claimed.
4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Application/Control Number: 13/349,271

Page 2

Art Unit: 2421

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENEA SMITH whose telephone number is (571)272-9524. The examiner can normally be reached on 8:00 am - 4:00 pm, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571)272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHENEA SMITH/
Primary Examiner, Art Unit 2421

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/349,271	01/12/2012	Khader B. Syed	PD-211009	5851
20991 7590 07/11/2013 THE DIRECTV GROUP, INC. PATENT DOCKET ADMINISTRATION CA / LA1 / A109 2230 E. IMPERIAL HIGHWAY EL SEGUNDO, CA 90245			EXAMINER SMITH, CHENEA	
			ART UNIT 2421	PAPER NUMBER
			MAIL DATE 07/11/2013	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 13/349,271		Applicant(s) SYED ET AL.	
	Examiner CHENEA SMITH		Art Unit 2421	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 26 March 2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5) ☒ Claim(s) 1-10, 12, 15-18, 20-23, 25-31 and 34-37 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 1-10, 12, 15-18, 20-23, 25-31 and 34-37 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some * c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Interim copies:

a) ☐ All b) ☐ Some c) ☐ None of the: Interim copies of the priority documents have been received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

4) ☐ Other: _____

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DETAILED ACTION

Response to Amendment

1. This office action is in response to communications filed 4/25/2013. Claims 1, 5, 7 and 20 are amended. Claims 11, 13-14, 19, 24, 32-33 and 38 are cancelled. Claims 1-10, 12, 15-18, 20-23, 25-31 and 34-37 are pending in this action.

Response to Arguments

2. Applicant's arguments with respect to claims 1-10, 12, 15-18, 20-23, 25-31 and 34-37 have been considered but are moot in view of new grounds of rejection. Although new grounds of rejection are presented, a response is still considered necessary to several of Applicants' arguments since the references of record will continue to be used to meet the claimed limitations.

3. In response to Applicants' arguments on page 11 that "Casey does not remedy the deficiencies of White discussed above with respect to claims 1 and 20", the Examiner respectfully disagrees. The Applicants should please note that the combination of White in view of Casey teaches the newly added limitations as claimed (please see rejection below).

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-2, 4-10, 12, 16-18, 20-22, 25-31 and 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Casey (of record) in view of White (of record).

Regarding claim 1, Casey discloses a method comprising transcoding content at a transcoder device to form transcoded content (see Casey, [0028], [0030] and [0041]);

communicating the transcoded content to a set top box (see Casey, [0028], [0030], [0041] and [0050]);

selecting a first content title at a user device to form a selection (subscriber connectivity device/portable device, see Casey, [0044]); and

communicating the transcoded content corresponding to the selection from the set top box to the user device (see Casey, [0028], [0030], [0033], [0041], [0043] and [0050]).

Casey does not specifically disclose generating a playlist corresponding to the transcoded content stored in the set top box; or

communicating the playlist to the user device.



In an analogous art relating to a system for providing content to a user, White discloses a method comprising:

generating a playlist corresponding to content titles stored in a set top box (see White, [0109]-[0110]);

communicating the playlist to a user device (see White, [0110]);

selecting a first content title from the playlist at the user device to form a selection (see White, [0111]); and

communicating transcoded content corresponding to the selection to the user device (see White, [0060] and [0112]-[0113]).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Casey to include the limitations as taught by White for the advantage of providing an improved system that efficiently informs a user of a user device of various available information of a set top box.

Regarding claims 2 and 21, Casey in view of White discloses wherein generating the playlist comprises generating the playlist and communicating the playlist to a cloud location (the cloud location being the control server 38, see White, [0110]).

Regarding claims 4 and 22, Casey in view of White discloses transcoding content comprises communicating content from the set top box through a network to the transcoder device to form transcoded content (see White, [0060] and [0109]-[0111]).

Regarding claim 5, Casey in view of White discloses wherein transcoding content is performed in response to receiving a request at a server associated with the transcoder device (see White, [0111]).

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Regarding claims 6 and 25, Casey in view of White discloses further comprising communicating the selection to the set top box (see White, [0111]).

Regarding claims 7 and 26, Casey in view of White discloses storing the transcoded content in the set top box (see Casey, [0028], [0030], [0033], [0041], [0043] and [0050])).

Regarding claims 8 and 27, Casey in view of White discloses generating a request for the playlist at the user device and communicating the request for the playlist to the set top box (see White, [0109]).

Regarding claims 9 and 28, Casey in view of White discloses wherein communicating the request for the playlist to the set top box comprises communicating the request through a satellite (see White, [0036]).

Regarding claims 10 and 29, Casey in view of White discloses generating a request for the playlist at the user device and communicating the request for the playlist to the set top box from a server located remotely from the set top box (see White, [0109]-[0111]).

Regarding claims 12 and 31, Casey in view of White discloses generating a request for the playlist at the user device and communicating the request to the set top box from a cloud location (see White, [0109]-[0111]).

Regarding claims 16 and 35, Casey in view of White discloses storing a plurality of content in a storage device associated with a server located remotely from a set top box (see White, [0038] and [0111]-[0113]).

Regarding claims 17 and 36, Casey in view of White discloses wherein communicating transcoded content comprises communicating transcoded content from a server associated with the transcoder device to the user device (see White, [0060] and [0109]-[0113]).

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Regarding claims 18 and 37, Casey in view White discloses communicating the playlist to a cloud location from the set top box (see White, [0110]).

Regarding claim 20, Casey discloses a system comprising:

a cloud location comprising a transcoder device transcoding content to form transcoded content and communicating the transcoded content (see Casey, [0028], [0030], [0041] and [0050]);

a set top box receiving the transcoded content (see Casey, [0028], [0030], [0041] and [0050]);

a user device which selects a first content title to form a selection (see Casey, [0044]);
and

the set top box communicating the transcoded content corresponding to the selection to the user device (see Casey, [0028], [0030], [0033], [0041], [0043] and [0050]).

Casey does not specifically disclose a set top box generating a playlist corresponding to the transcoded content stored therein; or

a user device in communication with the cloud location and the set top box through a network, said user device reviews the playlist and selects a first content title from the playlist to form a selection.

In an analogous art relating to a system for providing content to a user, White discloses a set top box generating a playlist corresponding to content stored therein (see White, [0109]-[0110]); and

AX

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a user device in communication with the cloud location and the set top box through a network, said user device reviews the playlist and selects a first content title from the playlist to form a selection (see White, [0060] and [0110]-[0113]).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Casey to include the limitations as taught by White for the advantage of providing an improved system that efficiently informs a user of a user device of various available information of a set top box.

Regarding claim 30, Casey in view White discloses wherein the transcoding device stores the transcoded content in a storage device located remotely from the set top box (see White, [0060] and [0112]-[0113]).

6. Claims 3, 15, 23 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Casey (of record) in view of White (of record), as applied to claims 1 and 20 above, and further in view of Bennett (of record).

Regarding claims 3 and 23, Casey in view of White does not specifically disclose wherein transcoding content comprises communicating content simultaneously to the set top box and the transcoder device wherein the transcoder device forms the transcoded content.

In an analogous art relating to a system for video processing, Bennett discloses transcoding content comprising content simultaneously to the set top box and the transcoder device wherein the transcoder device forms the transcoded content (see Bennett, [0030] and [0035]).

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It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Casey in view of White to include the limitations as taught by Bennett for the advantage of providing an improved, more flexible system that provides multiple, simultaneous and unique outputs.

Regarding claims 15 and 34, Casey in view of White, and further in view of Bennett discloses communicating the transcoded content to the set top box and wherein communicating the transcoded content to the user device comprises communicating the transcoded content to the user device from a cloud location (see Bennett, [0030] and [0035]).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

AP

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENEA SMITH whose telephone number is (571)272-9524. The examiner can normally be reached on 8:00 am - 4:00 pm, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Parry can be reached on (571)272-8328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHENEA SMITH/
Primary Examiner, Art Unit 2421

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/349,271	01/12/2012	Khader B. Syed	PD-211009	5851
20991 7590 12/26/2012 THE DIRECTV GROUP, INC. PATENT DOCKET ADMINISTRATION CA / LA1 / A109 2230 E. IMPERIAL HIGHWAY EL SEGUNDO, CA 90245			EXAMINER SMITH, CHENEA	
			ART UNIT 2421	PAPER NUMBER
			MAIL DATE 12/26/2012	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

X8

Office Action Summary	Application No.	Applicant(s)	
	13/349,271	SYED ET AL.	
	Examiner	Art Unit	
	CHENEA SMITH	2421	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 January 2012.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-38 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-38 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 12 January 2012 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: ____.
- 4) ☐ Other: ____.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 4-13, 16-18, 20-22, 24-32 and 35-37 are rejected under 35 U.S.C. 102(b) as being anticipated by White et al. (US20090222874, hereinafter White).

Regarding claims 1 and 20, White discloses a method comprising:

generating a playlist corresponding to content titles stored in a set top box (see White, [0109]-[0110]);

communicating the playlist to a user device (see White, [0110]);

selecting a first content title from the playlist at the user device to form a selection (see White, [0111]);

transcoding content corresponding to the selection at a transcoder device to form transcoded content (see White, [0060]); and

communicating the transcoded content to the user device (see White, [0060] and [[0112]-[0113]]).

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Regarding claims 2 and 21, White discloses wherein generating the playlist comprises generating the playlist and communicating the playlist to a cloud location (the cloud location being the control server 38, see White, [0110]).

Regarding claims 4 and 22, White discloses transcoding content comprises communicating content from the set top box through a network to the transcoder device to form transcoded content (see White, [0060] and [0109]-[0111]).

Regarding claims 5 and 24, White discloses wherein transcoding content is performed in response to receiving the selection at a server associated with the transcoder device (see White, [0111]).

Regarding claims 6 and 25, White discloses further comprising communicating the selection to the set top box (see White, [0111]).

Regarding claims 7 and 26, White discloses storing content in the set top box (see White, [0109]).

Regarding claims 8 and 27, White discloses generating a request for the playlist at the user device and communicating the request for the playlist to the set top box (see White, [0109]).

Regarding claims 9 and 28, White discloses wherein communicating the request for the playlist to the set top box comprises communicating the request through a satellite (see White, [0036]).

Regarding claims 10 and 29, White discloses generating a request for the playlist at the user device and communicating the request for the playlist to the set top box from a server located remotely from the set top box (see White, [0109]-[0111]).

Regarding claims 11 and 30, White discloses wherein after transcoding content, storing the transcoded content in a storage device located remotely from the set top box (see White, [0060] and [0112]-[0113]).

Regarding claims 12 and 31, White discloses generating a request for the playlist at the user device and communicating the request to the set top box from a cloud location (see White, [0109]-[0111]).

Regarding claims 13 and 32, White discloses wherein communicating the transcoded content to the user device comprises communicating the transcoded content to the user device from a cloud location (see White, [0060] and [0112]-[0113]).

Regarding claims 16 and 35, White discloses storing a plurality of content in a storage device associated with a server located remotely from a set top box (see White, [0038] and [0111]-[0113]).

Regarding claims 17 and 36, White discloses wherein communicating transcoded content comprises communicating transcoded content from a server associated with the transcoder device to the user device (see White, [0060] and [0109]-[0113]).

Regarding claims 18 and 37, White discloses communicating the playlist to a cloud location from the set top box (see White, [0110]).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3, 15, 19, 23, 34 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over White (previously cited), as applied to claims 1 and 20 above, and further in view of Bennett et al. (US20060031889, hereinafter Bennett).

Regarding claims 3 and 23, White does not specifically disclose wherein transcoding content comprises communicating content simultaneously to the set top box and the transcoder device wherein the transcoder device forms the transcoded content.

In an analogous art relating to a system for video processing, Bennett discloses transcoding content comprising content simultaneously to the set top box and the transcoder device wherein the transcoder device forms the transcoded content (see Bennett, [0030] and [0035]).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of White to include the limitations as taught by Bennett for the advantage of providing an improved, more flexible system that provides multiple, simultaneous and unique outputs.

Regarding claims 15 and 34, White in view of Bennett discloses communicating the transcoded content to the set top box and wherein communicating the transcoded content to the user device comprises communicating the transcoded content to the user device from a cloud location (see Bennett, [0030] and [0035]).

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Regarding claims 19 and 38, White in view of Bennett discloses wherein transcoding content is performed in response to the selection (the selection of White reasonably corresponding to the selection of Bennett, see Bennett, [0030]) and further comprising communicating the selection to the cloud location (see White, [0109]-[0111]).

5. Claims 14 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over White (previously cited), as applied to claims 1 and 20 above, and further in view of Casey (US20060184978, hereinafter Casey).

Regarding claims 14 and 33, White does not specifically disclose wherein communicating the transcoded content to the user device comprises communicating the transcoded content to the user device from the set top box.

In an analogous art relating to a system for video processing, Casey discloses wherein communicating the transcoded content to the user device comprises communicating the transcoded content to the user device from the set top box (see Casey, [0028]).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of White to include the limitations as taught by Bennett for the advantage of providing an improved, more flexible system that provides various different distribution options.

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Application/Control Number: 13/349,271
Art Unit: 2421

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENEA SMITH whose telephone number is (571)272-9524. The examiner can normally be reached on 8:00 am - 4:00 pm, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on 571-272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/CHENEA SMITH/
Examiner, Art Unit 2421

