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Vasudevan et al.

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(54) **METHOD AND DEVICE FOR RECEIVING AND PROVIDING PROGRAMS**

(2013.01); **H04N 21/2221** (2013.01); **H04N 21/235** (2013.01); **H04N 21/23424** (2013.01); **H04N 21/23608** (2013.01); **H04N 21/26275** (2013.01); **H04N 21/435** (2013.01); **H04N 21/44222** (2013.01); **H04N 21/4758** (2013.01); **H04N 21/47202** (2013.01); **H04N 21/6371** (2013.01); **H04N 21/6377** (2013.01);
(Continued)

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(58) **Field of Classification Search**
CPC H04N 21/0647; H04N 21/658; H04N 21/6587; H04N 21/6371; H04N 21/6492; H04N 21/64738; H04N 21/6581
USPC 370/486
See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 121 days.

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(21) Appl. No.: **14/507,329**

Primary Examiner — Sai-Ming Chan

(22) Filed: **Oct. 6, 2014**

(74) *Attorney, Agent, or Firm* — Bart A. Perkins

(65) **Prior Publication Data**

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(57) **ABSTRACT**

Related U.S. Application Data

(63) Continuation of application No. 13/591,015, filed on Aug. 21, 2012, now Pat. No. 8,855,139, which is a (Continued)

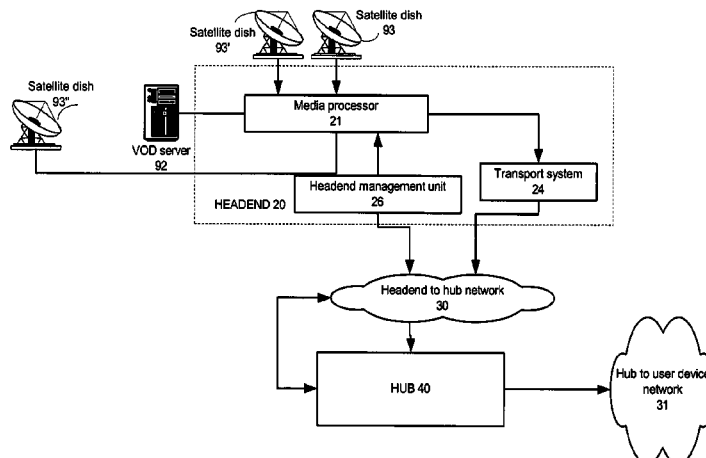
A method for providing programs, the method includes: (i) providing a program multiplex to multiple users device; (ii) considering a removal of at least one program from the multiplex in response to program viewing parameters; (iii) allowing at least one user to respond to a possible removal of the program; and (iv) determining whether to remove the at least one program in response to received user removal responses. A user device that includes a transceiver unit that is connected to a controller, wherein the device is adapted to receive a program multiplex, to receive an indication that at least one program is to be removed from the multiplex, and to selectively transmit a program removal response.

(51) **Int. Cl.**
H04J 1/00 (2006.01)
H04N 21/647 (2011.01)

(Continued)

(52) **U.S. Cl.**
CPC **H04N 21/64792** (2013.01); **H04N 7/17318**

17 Claims, 13 Drawing Sheets



Related U.S. Application Data

continuation of application No. 11/200,754, filed on Aug. 9, 2005, now Pat. No. 8,249,114.

- (60) Provisional application No. 60/600,473, filed on Aug. 10, 2004, provisional application No. 60/662,844, filed on Mar. 16, 2005.

(51) **Int. Cl.**

H04N 7/173 (2011.01)
H04N 21/222 (2011.01)
H04N 21/234 (2011.01)
H04N 21/235 (2011.01)
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H04N 21/262 (2011.01)
H04N 21/435 (2011.01)
H04N 21/442 (2011.01)
H04N 21/472 (2011.01)
H04N 21/475 (2011.01)
H04N 21/6377 (2011.01)
H04N 21/654 (2011.01)
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H04N 21/6587 (2011.01)
H04N 21/6371 (2011.01)

(52) **U.S. Cl.**

CPC *H04N 21/64738* (2013.01); *H04N 21/654* (2013.01); *H04N 21/6581* (2013.01); *H04N 21/6582* (2013.01); *H04N 21/6587* (2013.01)

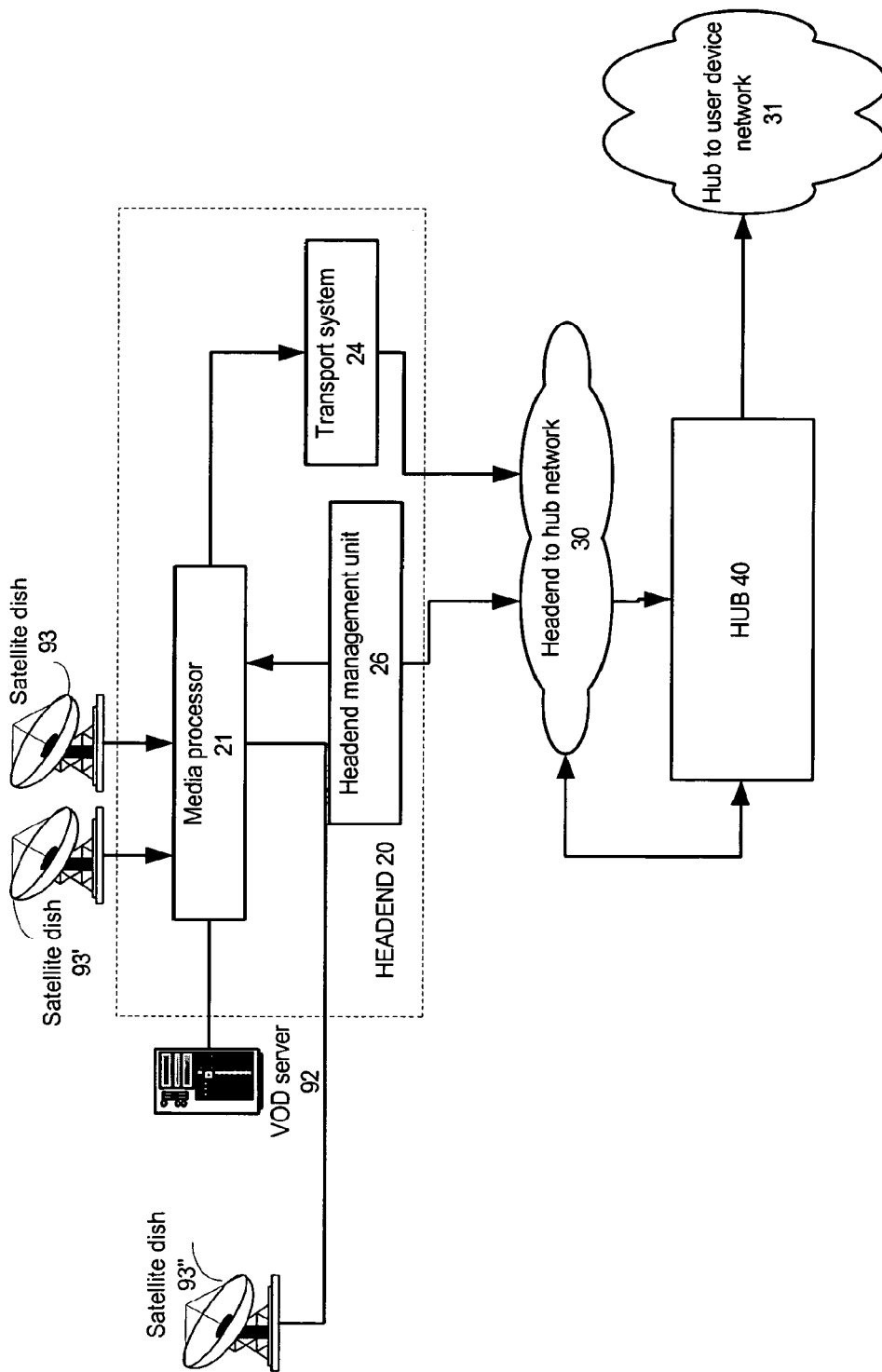


FIGURE 1

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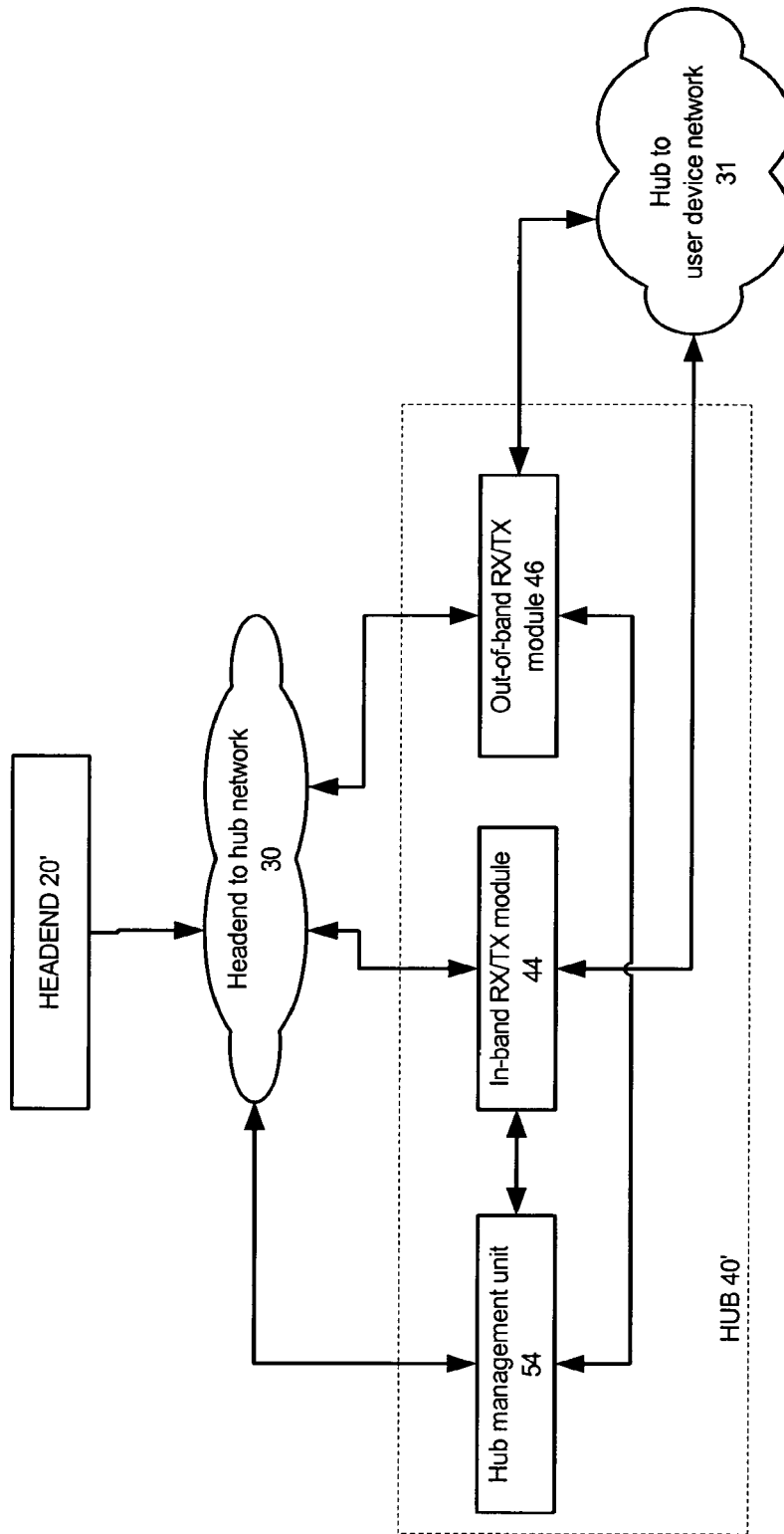


FIGURE 2

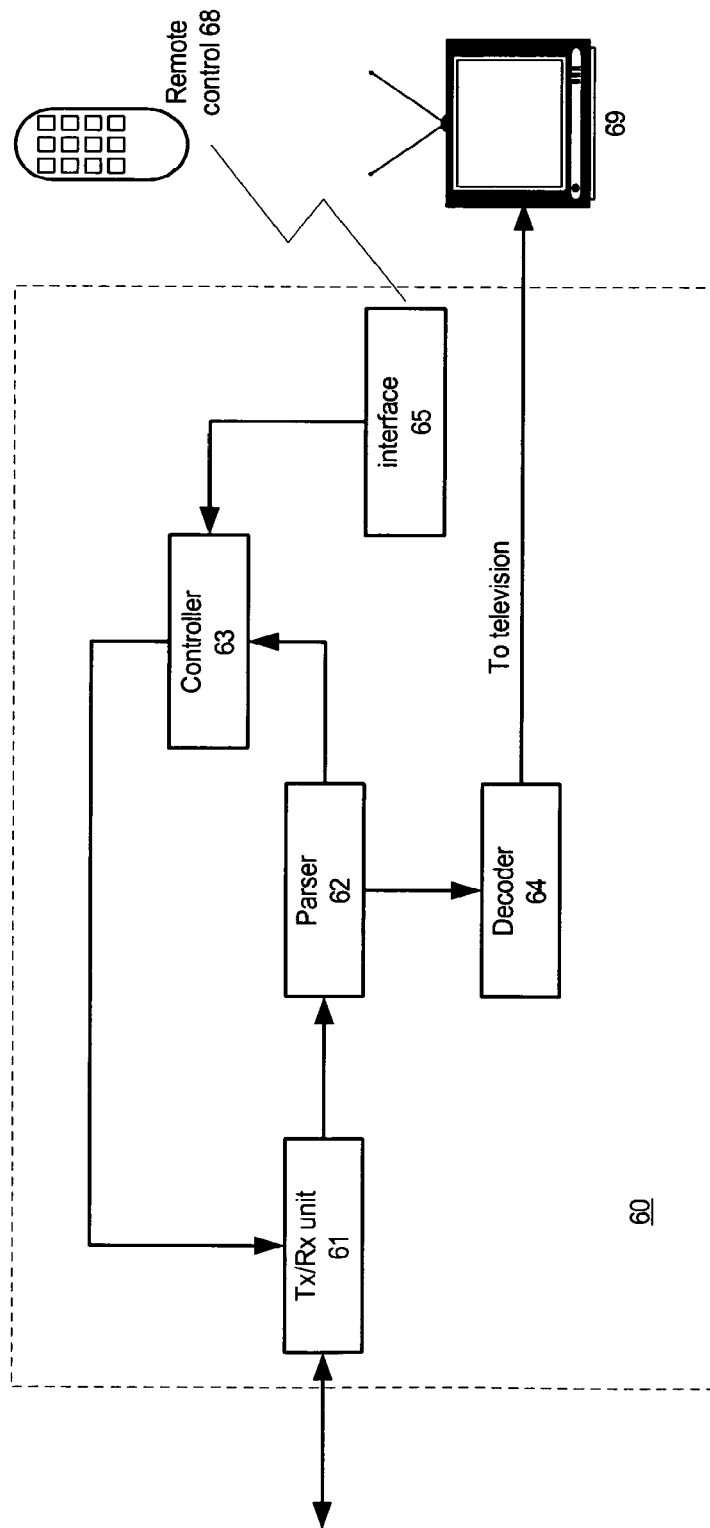


FIGURE 3

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