

EXHIBIT 19

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

(10) **Patent No.:** US 9,432,618 B2
 (45) **Date of Patent:** *Aug. 30, 2016

- (54) **TELEVISION RECEIVER WITH A TV PHONE FUNCTION**
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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 0 days.

USPC 348/14.04, 14.01, 14.02, 14.03, 14.05,
 348/14.06, 14.07, 14.08, 14.09, 14.1, 14.11,
 348/14.12, 14.13, 14.14, 15.15, 14.16;
 382/275; 379/265.03; 455/414.1, 566;
 704/270
 See application file for complete search history.

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Primary Examiner — Khai Nguyen

(74) *Attorney, Agent, or Firm* — Mattingly & Malur, PC

(57) **ABSTRACT**

A videophone system includes a processor which selectively sets a television (TV) broadcast program viewing function mode and videophone function mode in response to manual operation of a remote control, a decoder which performs, in the TV program view mode, a TV program-use decode function for decoding a broadcast program signal received from a TV tuner to thereby display it on a display screen while producing audio sounds by loudspeakers and which performs, in the videophone function mode a videophone-use decode function for decoding a videophone signal received from a distant party to thereby display on the screen an image of the distant party using the screen and speakers, and an encoder which performs a videophone-use encode function for encoding a video signal from a camera and a voice signal from a microphone to generate a videophone signal, which is sent to the distant party via a network.

8 Claims, 10 Drawing Sheets

- (21) Appl. No.: **14/811,048**
 (22) Filed: **Jul. 28, 2015**
 (65) **Prior Publication Data**
 US 2015/0334352 A1 Nov. 19, 2015

Related U.S. Application Data

- (63) Continuation of application No. 13/723,312, filed on Dec. 21, 2012, now Pat. No. 9,124,758, which is a continuation of application No. 12/457,257, filed on Jun. 4, 2009, now Pat. No. 8,363,087.

(30) **Foreign Application Priority Data**

Sep. 25, 2008 (JP) 2008-246232

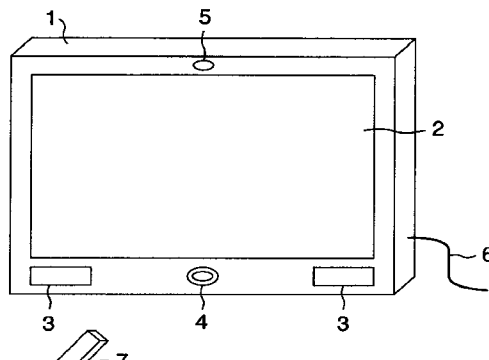
- (51) **Int. Cl.**
H04N 7/14 (2006.01)
H04N 7/173 (2011.01)

(Continued)

- (52) **U.S. Cl.**
 CPC **H04N 7/141** (2013.01); **H04N 7/142** (2013.01); **H04N 7/147** (2013.01); **H04N 7/148** (2013.01);

(Continued)

- (58) **Field of Classification Search**
 CPC H04N 21/254; H04N 21/42203;
 H04N 21/4223; H04N 21/431; H04N 21/4788; H04N 7/141; H04N 7/142; H04N 7/147; H04N 7/148; H04N 7/17318



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<p>(51) Int. Cl. <i>H04N 21/254</i> (2011.01) <i>H04N 21/422</i> (2011.01) <i>H04N 21/4223</i> (2011.01) <i>H04N 21/431</i> (2011.01) <i>H04N 21/4788</i> (2011.01)</p> <p>(52) U.S. Cl. CPC <i>H04N 7/17318</i> (2013.01); <i>H04N 21/254</i> (2013.01); <i>H04N 21/4223</i> (2013.01); <i>H04N</i> <i>21/42203</i> (2013.01); <i>H04N 21/431</i> (2013.01); <i>H04N 21/4788</i> (2013.01)</p> <p>(56) References Cited</p> <p style="text-align: center;">U.S. PATENT DOCUMENTS</p> <p>5,610,653 A * 3/1997 Abecassis A63F 13/10 348/170 5,684,918 A * 11/1997 Abecassis A63F 13/10 348/14.01 6,339,842 B1 1/2002 Fernandez et al. 6,529,742 B1 3/2003 Yang 7,593,031 B2 9/2009 Root et al. 8,013,938 B2 9/2011 Shyu 8,326,355 B1 12/2012 Fujisaki 8,363,087 B2 * 1/2013 Iwabuchi H04N 7/142 348/14.04 8,676,273 B1 3/2014 Fujisaki 9,124,758 B2 * 9/2015 Iwabuchi H04N 7/142 2001/0041053 A1 * 11/2001 Abecassis A63F 13/10 386/291 2002/0019984 A1 * 2/2002 Rakib G08B 13/19656 725/111 2003/0041333 A1 2/2003 Allen et al. 2003/0206720 A1 * 11/2003 Abecassis A63F 13/10 386/239 2004/0128700 A1 7/2004 Pan 2006/0041926 A1 * 2/2006 Istvan H04N 5/4403 725/133 2006/0212920 A1 * 9/2006 Yamaguchi H04H 40/18 725/135</p>	<p>2007/0070188 A1 3/2007 Shyu 2007/0094691 A1 4/2007 Gazdzinski 2007/0139514 A1 6/2007 Marley 2007/0216760 A1 9/2007 Kondo et al. 2007/0233839 A1 * 10/2007 Gaos G06Q 30/02 709/223 2008/0134278 A1 * 6/2008 Al-Karmi H04L 12/2834 725/141 2008/0172693 A1 * 7/2008 Ludvig H04N 5/44591 725/40 2008/0212949 A1 * 9/2008 Wachtfogel G11B 27/002 386/241 2009/0013373 A1 1/2009 Iizuka 2009/0073253 A1 3/2009 Lee 2009/0079813 A1 3/2009 Hildreth 2009/0174762 A1 7/2009 Takahashi 2009/0251526 A1 10/2009 Book 2013/0033561 A1 2/2013 Kwon et al.</p> <p style="text-align: center;">FOREIGN PATENT DOCUMENTS</p> <p>JP 05-236472 A 9/1993 JP 07-184174 7/1995 JP 08-289280 11/1996 JP 09-083983 3/1997 JP 2000184346 A 6/2000 JP 2001086475 A 3/2001 JP 2003-348510 12/2003 JP 2006-20286 6/2004 JP 2006-157610 6/2006 JP 2007-300594 A 11/2007 JP 2008-079215 4/2008</p> <p style="text-align: center;">OTHER PUBLICATIONS</p> <p>Japanese Office Action dated Aug. 5, 2014 in corresponding Japanese Application No. 2013-230194. Domestic technical journal 2007-00349-006—Skype realizes handy video call.</p> <p>* cited by examiner</p>
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FIG. 1

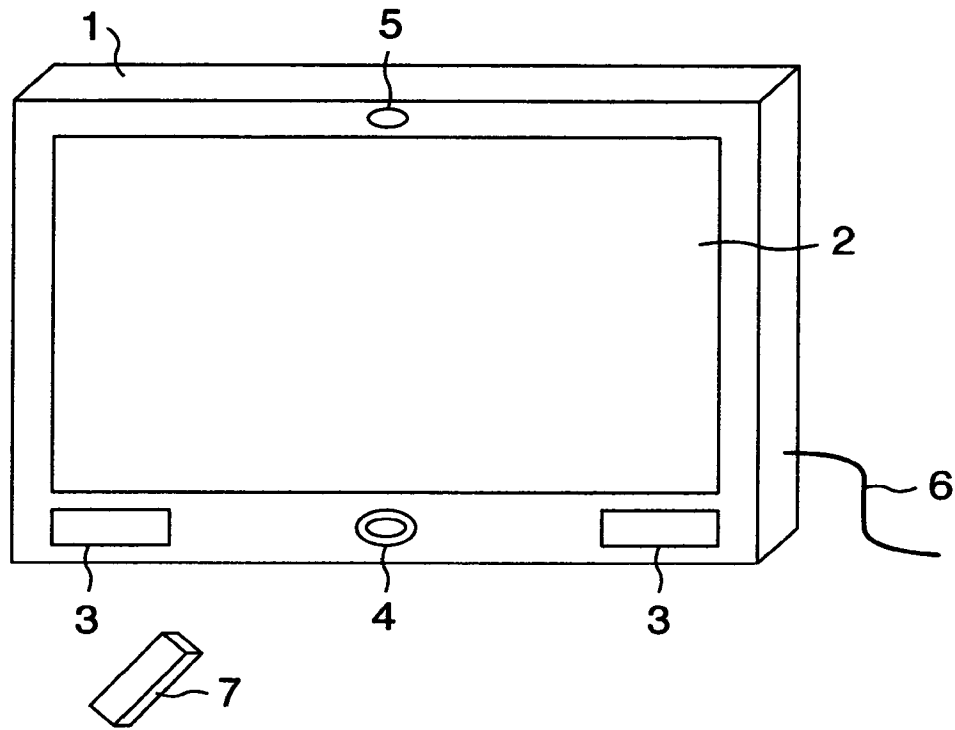
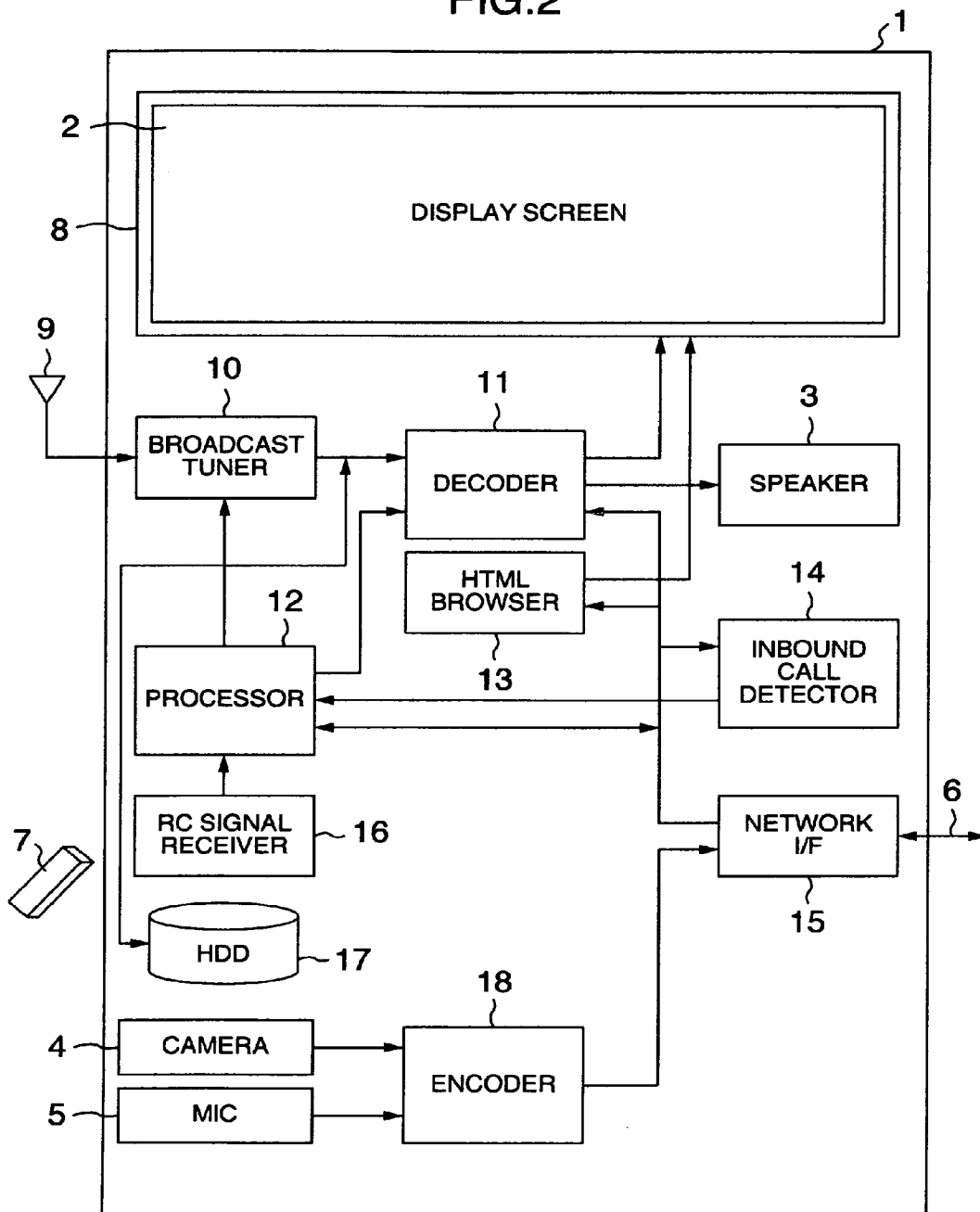


FIG. 2



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