

# EXHIBIT 5



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**Kurita et al.**

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(54) **DISPLAY APPARATUS AND VIDEO PROCESSING APPARATUS**

(56) **References Cited**

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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.

U.S. PATENT DOCUMENTS  
4,561,100 A 12/1985 Asao et al.  
5,678,173 A 10/1997 Mihara  
(Continued)

FOREIGN PATENT DOCUMENTS

CN 1428031 A 7/2003  
CN 1585403 A 2/2005  
(Continued)

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OTHER PUBLICATIONS

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

(63) Continuation of application No. 15/208,886, filed on Jul. 13, 2016, now Pat. No. 10,129,590, which is a (Continued)

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(30) **Foreign Application Priority Data**

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(57) **ABSTRACT**

While presenting on a display apparatus videos of high picture quality obtained from portable video processing apparatuses such as a camera and a cellular, it is possible to communicate with the Internet and/or a home network. A display apparatus includes a first radio communication unit capable of receiving video information by radio from an external video processing apparatus, a second radio communication unit capable of connecting by radio to a network, and a control unit for controlling assignment of connection by radio transmission for each of the first and second radio communication units. The control unit assigns connection of the first radio communication unit with higher priority and controls the assignment of the transmission rate such that the transmission rate between the first radio communication unit and the external video processing apparatus is more than that between the second radio communication unit and the network.

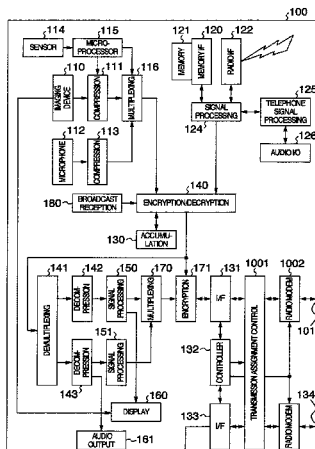
(51) **Int. Cl.**  
**H04N 21/4363** (2011.01)  
**H04N 21/414** (2011.01)  
(Continued)

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CPC ..... **H04N 21/43637** (2013.01); **H04L 69/14** (2013.01); **H04N 5/44** (2013.01);  
(Continued)

(58) **Field of Classification Search**  
CPC ..... H04N 21/43637; H04N 21/4122; H04N 5/44; H04N 21/41407; H04N 21/4367; H04L 69/14

See application file for complete search history.

**20 Claims, 9 Drawing Sheets**



**Related U.S. Application Data**

continuation of application No. 12/260,410, filed on Oct. 29, 2008, now Pat. No. 9,420,212.

2004/0107208	A1 *	6/2004	Seet .....	H04L 29/06
2006/0133418	A1	6/2006	Anand	
2007/0085933	A1	4/2007	Takagi et al.	
2007/0086724	A1	4/2007	Grady et al.	
2007/0091835	A1 *	4/2007	Jo .....	H04H 60/11 370/315
2007/0123163	A1	5/2007	Matsubara	
2007/0223505	A1	9/2007	Itai et al.	
2007/0242313	A1	10/2007	Shiomi	
2008/0025273	A1	1/2008	Sano	
2008/0109307	A1	5/2008	Ullah	
2008/0139118	A1	6/2008	Sanguinetti	
2008/0201751	A1	8/2008	Ahmed et al.	
2009/0091663	A1	4/2009	Toh et al.	

(51) **Int. Cl.**

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*H04L 29/06* (2006.01)  
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*H04N 21/4367* (2011.01)

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

CPC ... *H04N 21/4122* (2013.01); *H04N 21/41407* (2013.01); *H04N 21/4367* (2013.01)

**FOREIGN PATENT DOCUMENTS**

(56)

**References Cited**

U.S. PATENT DOCUMENTS

5,724,355	A *	3/1998	Bruno .....	H04L 12/6418 370/401
5,758,262	A	5/1998	Grysiewicz et al.	
6,037,991	A *	3/2000	Thro .....	H04N 7/147 348/443
6,763,226	B1	7/2004	McZeal, Jr.	
8,325,237	B2	12/2012	Bessone et al.	
8,572,257	B2	10/2013	Dua	

CN	1588997	3/2005
CN	1791092 A	6/2006
CN	1984481 A	6/2007
EP	2 019 560 A1	1/2009
JP	2002-135304	5/2002
JP	2007-202115	8/2007
JP	2007-258865	10/2007
JP	2007-282097	10/2007
JP	2008-035420	2/2008
WO	WO 01/93505 A2	12/2001

\* cited by examiner

FIG. 1

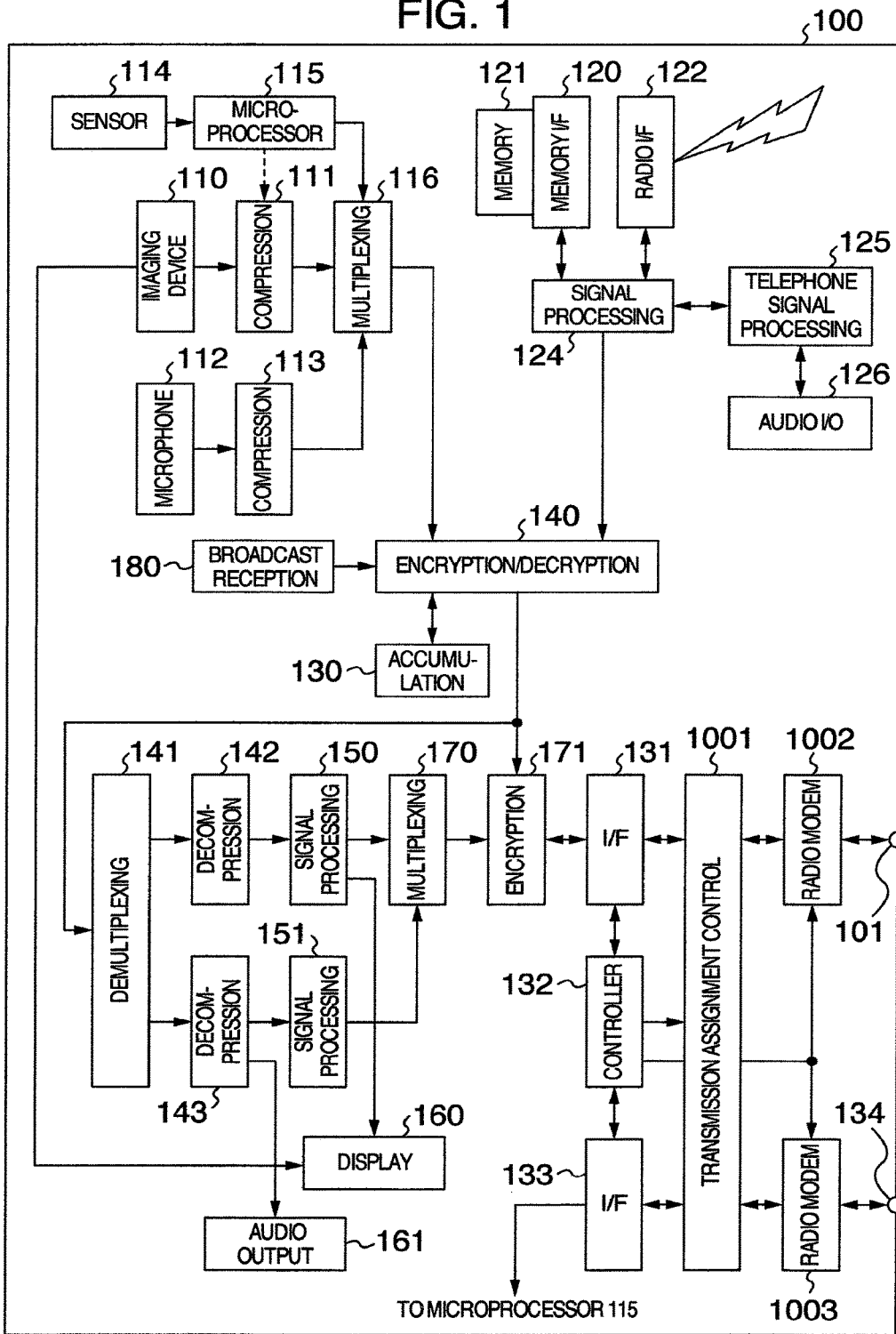
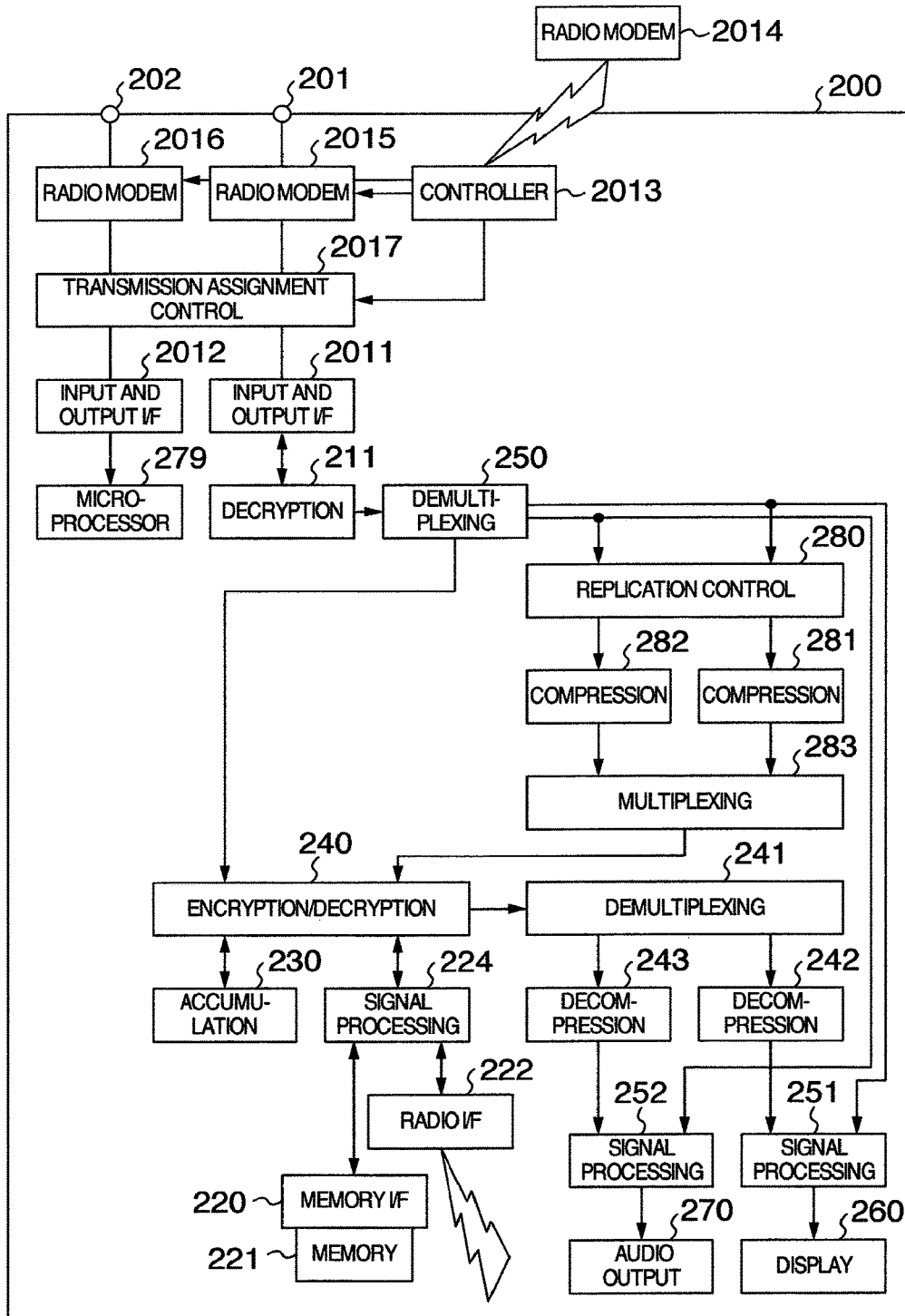


FIG. 2



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