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(12) **United States Patent**  
**Higgs**

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(54) **VIDEO BLURRING IN A SECURE ENVIRONMENT**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(71) Applicant: **Securus Technologies, Inc.**, Dallas, TX (US)

6,646,687	B1 *	11/2003	Vlahos	348/586
6,801,642	B2 *	10/2004	Gorday et al.	382/118
7,027,659	B1 *	4/2006	Thomas	382/254
7,092,568	B2 *	8/2006	Eaton	382/181
7,316,032	B2 *	1/2008	Tayebi et al.	705/51
7,428,639	B2 *	9/2008	Demos	713/176
7,556,599	B2 *	7/2009	Rovegno	600/175
7,562,397	B1 *	7/2009	Mithal et al.	726/33
7,657,171	B2 *	2/2010	Sundstrom	396/133
7,783,075	B2 *	8/2010	Zhang et al.	382/103
8,106,954	B2 *	1/2012	Sato et al.	348/217.1
8,270,303	B2 *	9/2012	Sauerwein et al.	370/240
8,319,898	B2 *	11/2012	Ueno et al.	348/625
8,488,896	B2 *	7/2013	Shi et al.	382/255
2010/0085351	A1 *	4/2010	Deb et al.	345/419
2012/0249843	A1 *	10/2012	Hayashi	348/241
2013/0033586	A1 *	2/2013	Hulyalkar	348/51
2013/0226037	A1 *	8/2013	Pinto et al.	600/587

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(73) Assignee: **Securus Technologies, Inc.**, Dallas, TX (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 91 days.

(21) Appl. No.: **13/931,857**

(22) Filed: **Jun. 29, 2013**

\* cited by examiner

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(51) **Int. Cl.**  
**H04N 7/14** (2006.01)  
**H04N 7/15** (2006.01)

(57) **ABSTRACT**

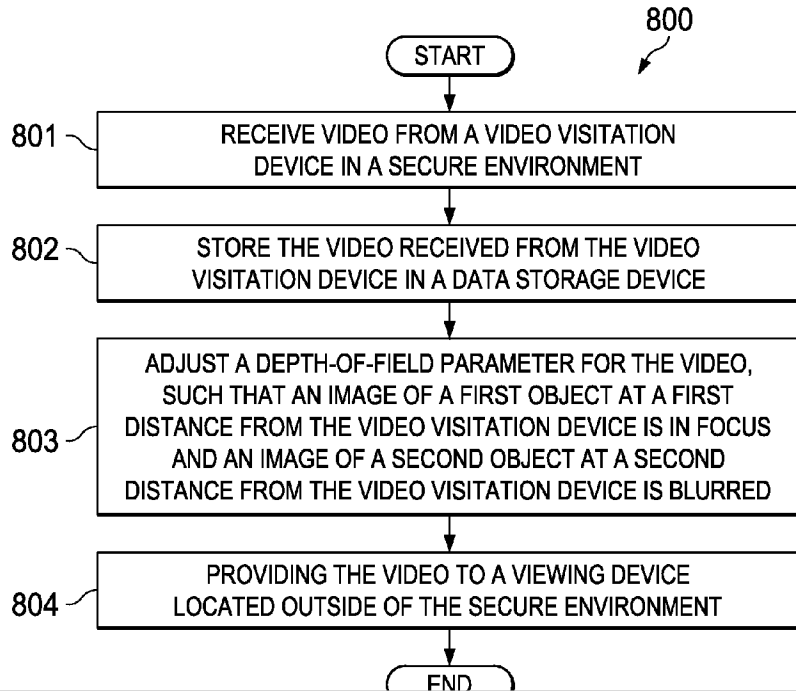
(52) **U.S. Cl.**  
CPC ..... **H04N 7/157** (2013.01)

Methods and systems for video blurring in a secure environment are described. In one embodiment, the method includes receiving video at a video visitation device in a secure environment, adjusting a depth of field parameter for the video, such that an image of a first object at a first distance from the video visitation device is in focus and an image of a second object at a second distance from the video visitation device is blurred, and providing the video to a viewing device located outside of the secure environment.

(58) **Field of Classification Search**  
CPC ..... H04N 7/157  
USPC ..... 345/419; 348/51, 217.1, 241, 586, 625, 348/14.07; 370/240; 382/103, 254, 255, 382/118, 181; 396/133; 600/175, 587; 713/176; 726/33

See application file for complete search history.

**21 Claims, 5 Drawing Sheets**



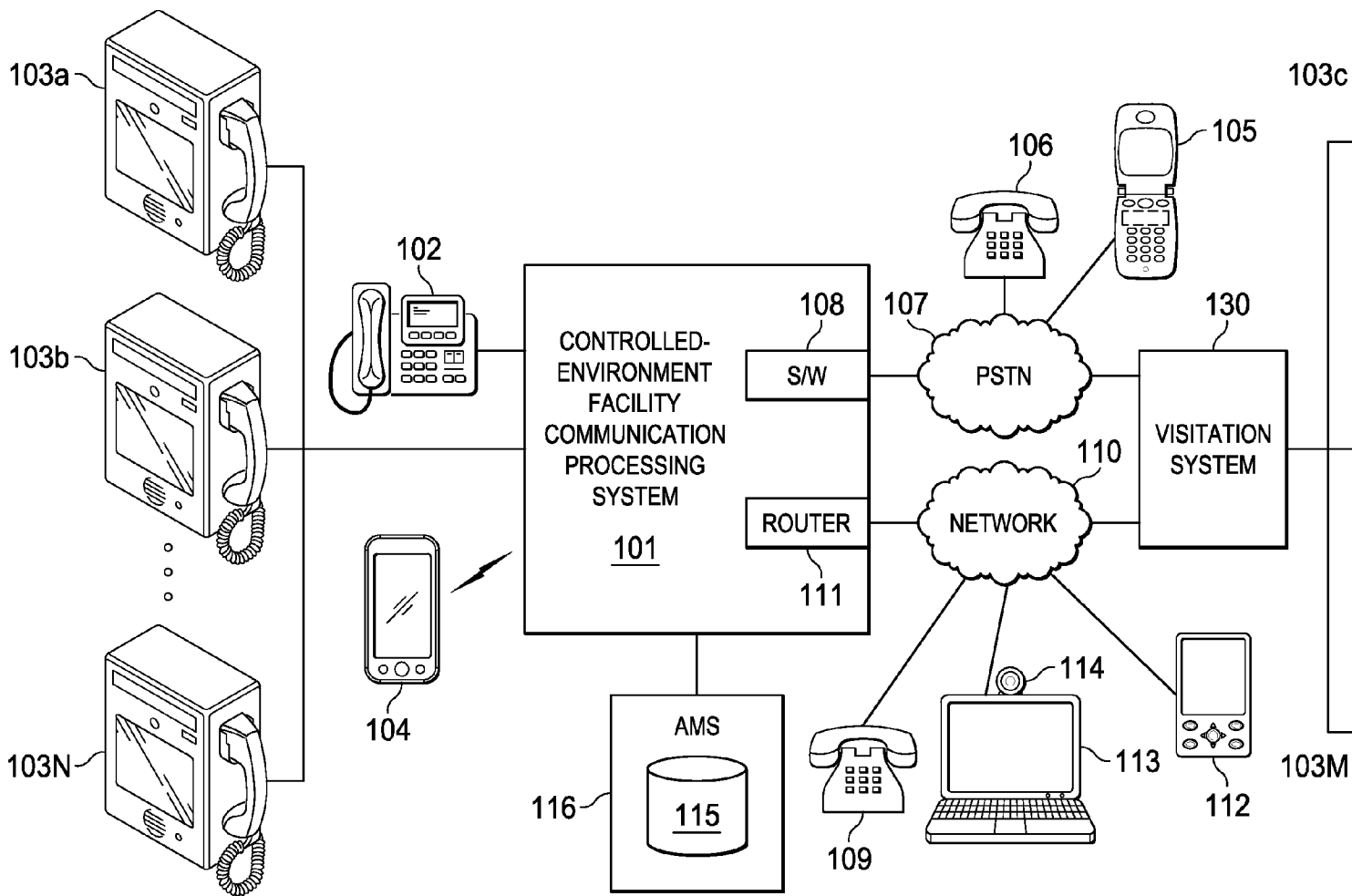
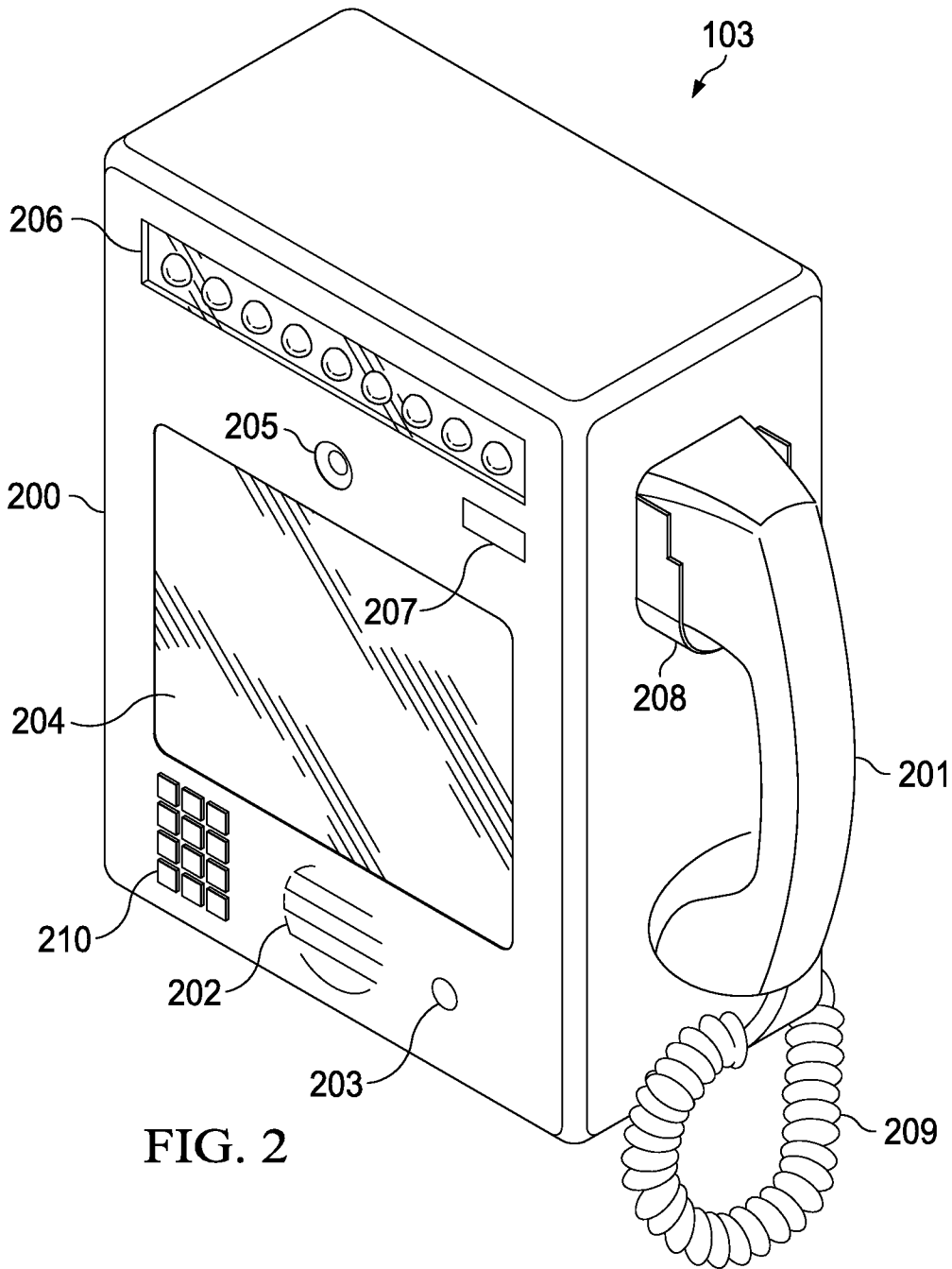


FIG. 1



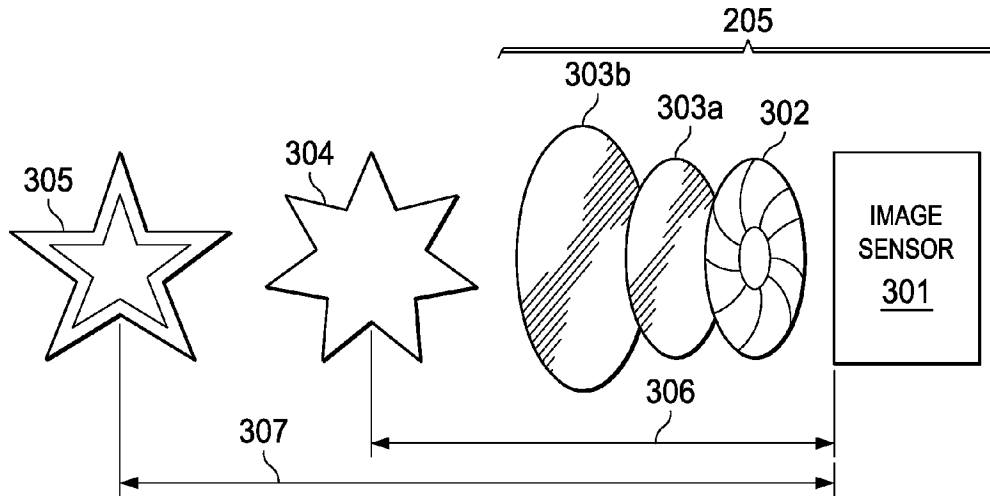


FIG. 3

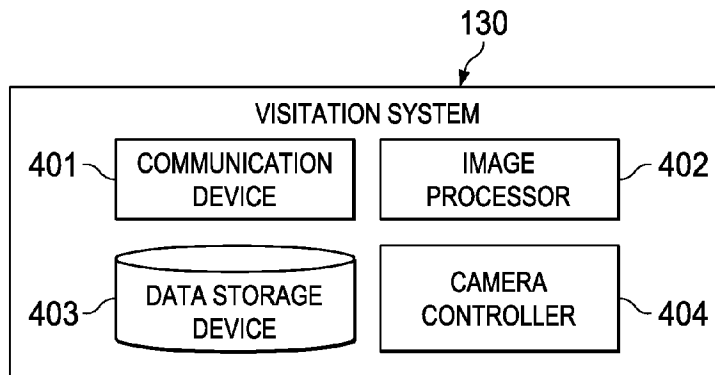


FIG. 4

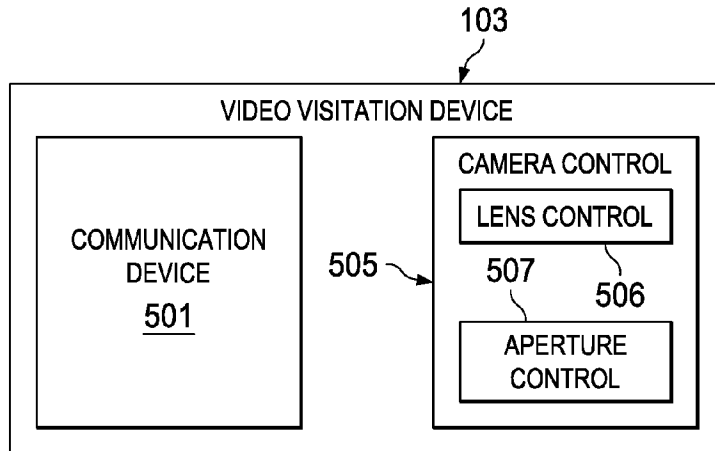
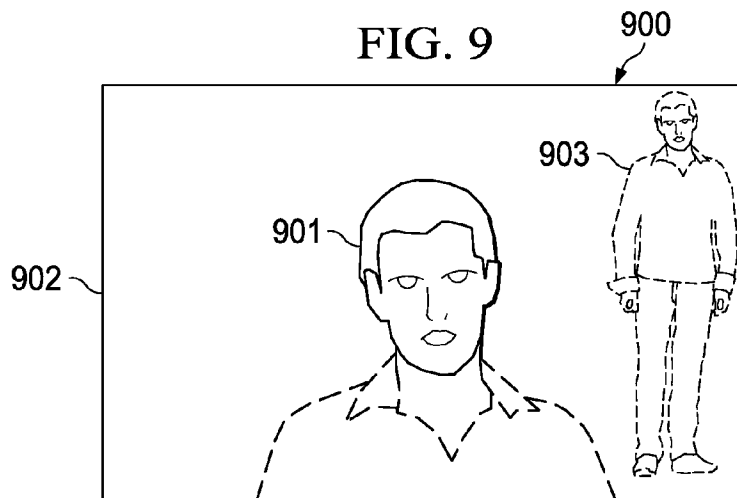
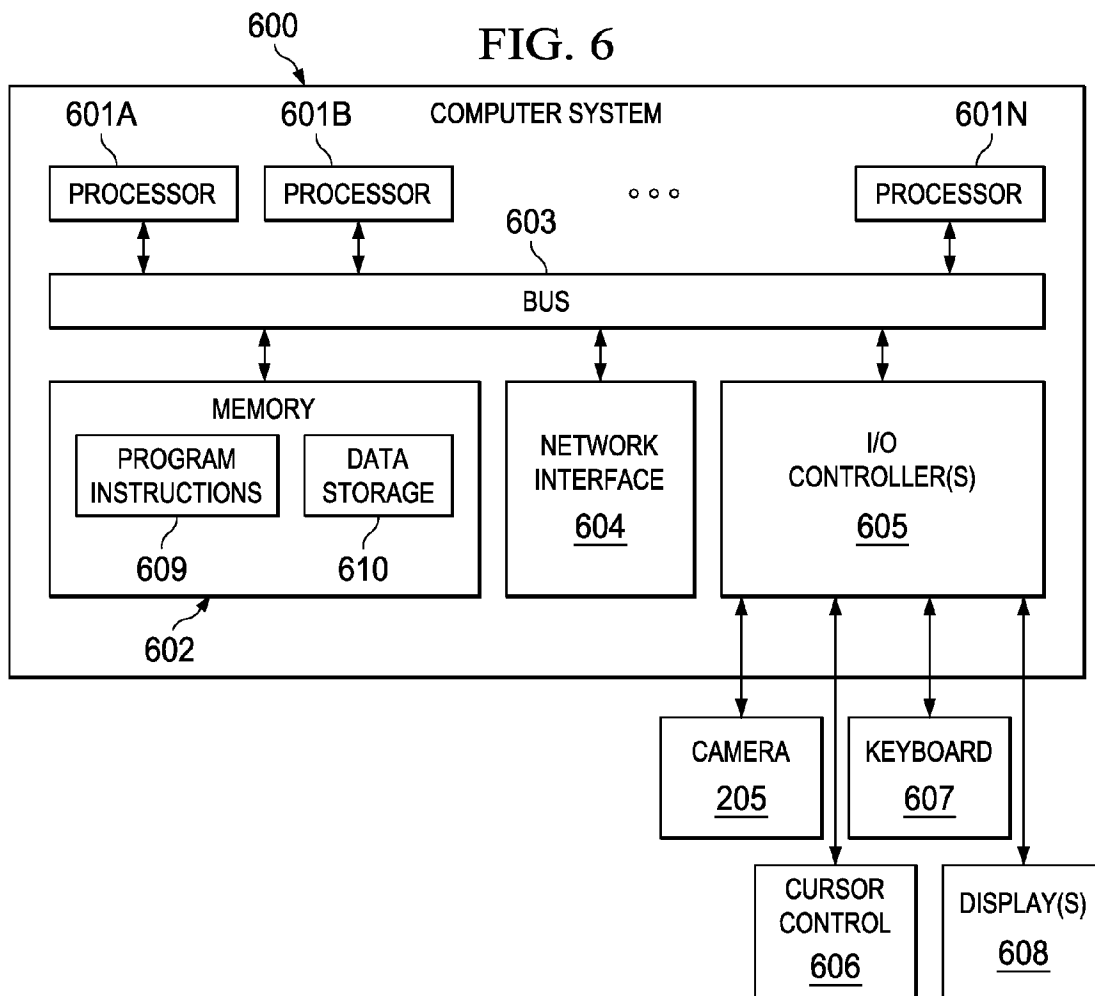


FIG. 5



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