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[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR SIMULTANEOUS LIVE RECORDING THROUGH AND PROJECTING LIVE VIDEO IMAGES ONTO AN INTERACTIVE TOUCH SCREEN

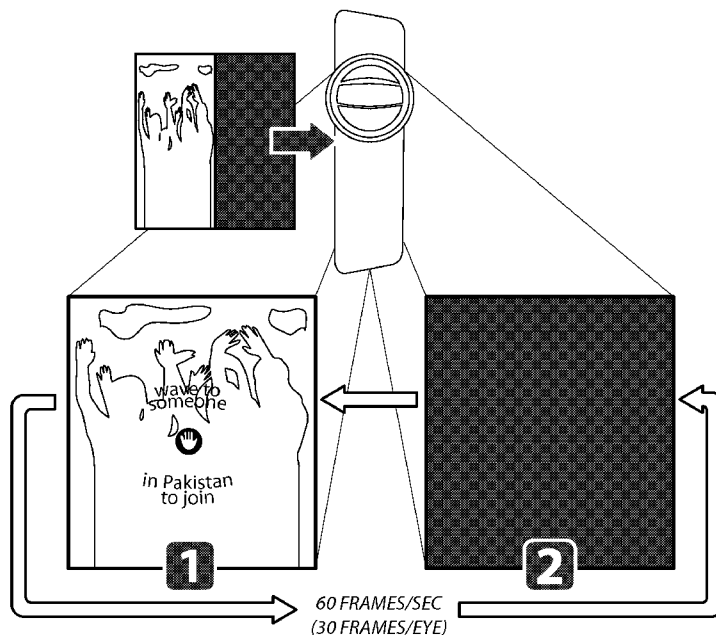


FIG. 2

(57) Abstract: A system and method for point to point video enable communication and the provisioning of at least one commodity. The communication between two remote devices may include both video and audio and may be activated by use of at least one touch screen associated with a device for provisioning the at least one commodity, such as, for example, a vending machine.

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**Published:**

**(88) Date of publication of the international search report:**

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

19 February 2015

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US14/42541

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(8) - G06F 3/041; G06Q 20/18 (2014.01)

CPC - G06F 3/041

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) Classification(s): G06F 3/041; G06Q 20/18; G07F 17/16 (2014.01)

CPC Classification(s): G06F 3/041; G07F 9/02; G09F 9/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); Google/ GooglePatents; IEEE; ProQuest; Espacenet.

Keywords: touch screen; vending machine; video camera; shutter; liquid crystal; acrylic.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 8035624 B2 (BELL, M et al.) 11 October 2011; Abstract; Column 5, lines 38-41; Column 16, lines 25-28.	1-4
Y	US 2010/0259058 A1 (KNIGHTON, M et al.) 14 October 2010; Abstract; paragraphs [0015], [0016].	1-4
Y	US 2011/0184812 A1 (STOULIL, R) 28 July 2011; Abstract; paragraphs [0033], [0099].	3 and 4
A	US 2011/0102320 A1 (HAUKE, R et al.) 5 May 2011; whole document.	1-4
A	US 2008/0052090 A1 (HEINEMANN, J et al.) 28 February 2008; whole document.	1-4

Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

2 October 2014 (02.10.2014)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US14/42541

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1. [ ] Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. [ ] Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. [ ] Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-4 are directed toward an apparatus for simultaneously recording a first live video stream and projecting a second live video stream onto an interactive touch screen.

Group II: Claims 5-14 are directed toward methods of facilitating communicating between two remote locations.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

\*\*\*-See Supplemental Page-\*\*\*

- 1. [ ] As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. [ ] As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. [X] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-4

Remark on Protest

- [ ] The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
[ ] The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
[ ] No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

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-\*\*\*-Continued from Box III: Lack of Unity of Invention-\*\*\*-

The special technical features of Group I include a touch screen panel; a polarized acrylic screen; at least one video camera having a lens; an active shutter lens having a liquid crystal layer sandwiched between a first and a second outer layer, the active shutter lens being proximate to the video camera lens; a projector adapted to project an image onto the polarized acrylic screen; and means for connecting to the internet, which are not present in Group II.

The special technical features of Group II include recording a first video stream through a first device in accordance with a first indication wherein the first indication is indicative of at least one physical interaction by a first user with the first device; receiving at the first device a second video stream recorded at a second device in accordance with a second indication wherein the second indication is indicative of at least one physical interaction by a second user with the second device, and providing at least one good at the first device in accordance with the second indication, wherein the first device is remote from the second device, which are not present in Group I.

The common technical features shared by Groups I and II are recording a first live video stream and displaying a second live video stream on a screen; a physical interaction with a device; a first device; and a second device.

However, these common features are previously disclosed by US 2012/0287321 A1 to Border, J et al. (hereinafter 'Border'). Border discloses recording a first live video stream and displaying a second live video stream on a screen (in a video teleconferencing application, a switchable imaging apparatus switches between an image capture mode and an image display mode, paragraph [0074]); a physical interaction with a device (device is held in the user's hand, figure 6D); a first device; and a second device (in a teleconferencing application, two users each have a switchable imaging apparatus (first and second device), figure 6D, paragraph [0073]).

Since the common technical features are previously disclosed by the Border reference, these common features are not special and so Groups I and II lack unity.