

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0231971 A1 Davidson

Jul. 20, 2023 (43) **Pub. Date:**

(54) DETAILED VIDEOCONFERENCE VIEWPOINT GENERATION

(71) Applicant: eBay Inc., San Jose, CA (US)

Inventor: Justin Donald Davidson, San Jose, CA

Assignee: eBay Inc., San Jose, CA (US)

Appl. No.: 17/579,098 (21)

(22) Filed: Jan. 19, 2022

Publication Classification

(51) Int. Cl. (2006.01)H04N 7/15 H04L 12/18 (2006.01)G10L 25/78 (2006.01)G01S 15/06 (2006.01)G06V 40/16 (2006.01)G06T 7/20 (2006.01)

(52) U.S. Cl.

CPC H04N 7/15 (2013.01); H04L 12/1822 (2013.01); G10L 25/78 (2013.01); G01S 15/06 (2013.01); G06V 40/172 (2022.01); G06T 7/20

(57)ABSTRACT

A videoconference system is described that generates a video for a room including multiple videoconference participants and outputs the video as part of the videoconference. The videoconference system is configured to generate the video as including a detailed view of one of the multiple videoconference participants located in the room. To do so, the videoconference system detects user devices located in the room capable of capturing video and determines a position of each user device. The videoconference system then detects a user speaking in the room and determines a position of the active speaker. At least one of the user devices is identified as including a camera oriented for capturing the active speaker. Video content captured by one or more user devices is then processed by the videoconference system to generate a detailed view of the active speaker.

