

Exhibit B

U.S. Patent No. 6,741,250

*Method and System for Generation of Multiple Viewpoints into a Scene Viewed by Motionless
Cameras and for Presentation of a View Path*

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

(10) **Patent No.:** **US 6,741,250 B1**
(45) **Date of Patent:** **May 25, 2004**

(54) **METHOD AND SYSTEM FOR GENERATION OF MULTIPLE VIEWPOINTS INTO A SCENE VIEWED BY MOTIONLESS CAMERAS AND FOR PRESENTATION OF A VIEW PATH**

(52) **U.S. Cl.** **345/427**
(58) **Field of Search** 345/419, 427, 345/428, 473, 619, 581, 582

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(57) **ABSTRACT**

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 393 days.

Methods and apparatus for defining a view path through at least one wide-angle video stream and for creation of a resultant unwarped video stream responsive to the view path. Aspects of the invention allow an operator to monitor the wide-angle video stream(s) and select which portion of the wide-angle frame to unwarped in real-time. Further, the operator can stop the playback of the wide-angle video stream and dwell within a particular wide-angle frame to create special effects such as camera tilt, pan and zoom operations in a stop action situation.

(21) **Appl. No.:** **09/982,614**

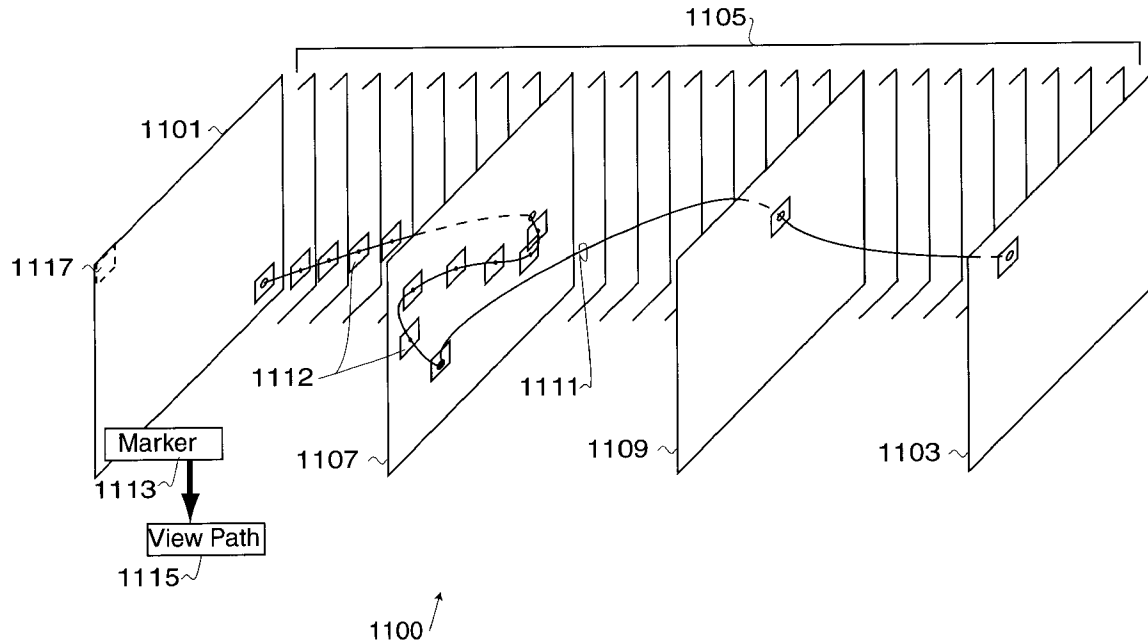
(22) **Filed:** **Oct. 17, 2001**

Related U.S. Application Data

(60) Provisional application No. 60/288,396, filed on May 2, 2001, and provisional application No. 60/267,538, filed on Feb. 9, 2001.

(51) **Int. Cl.⁷** **G06T 15/00**

56 Claims, 21 Drawing Sheets



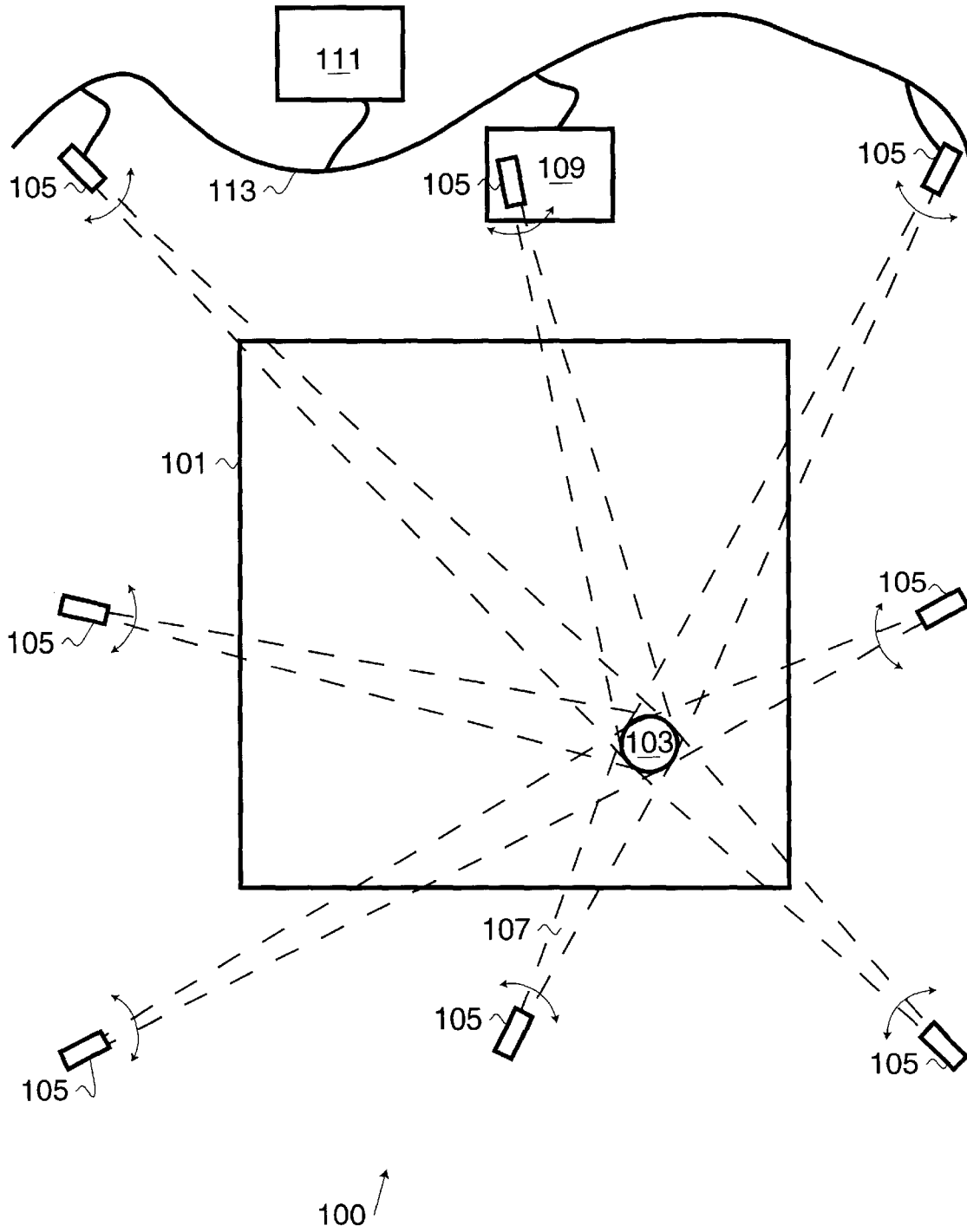


Fig. 1
(Prior Art)

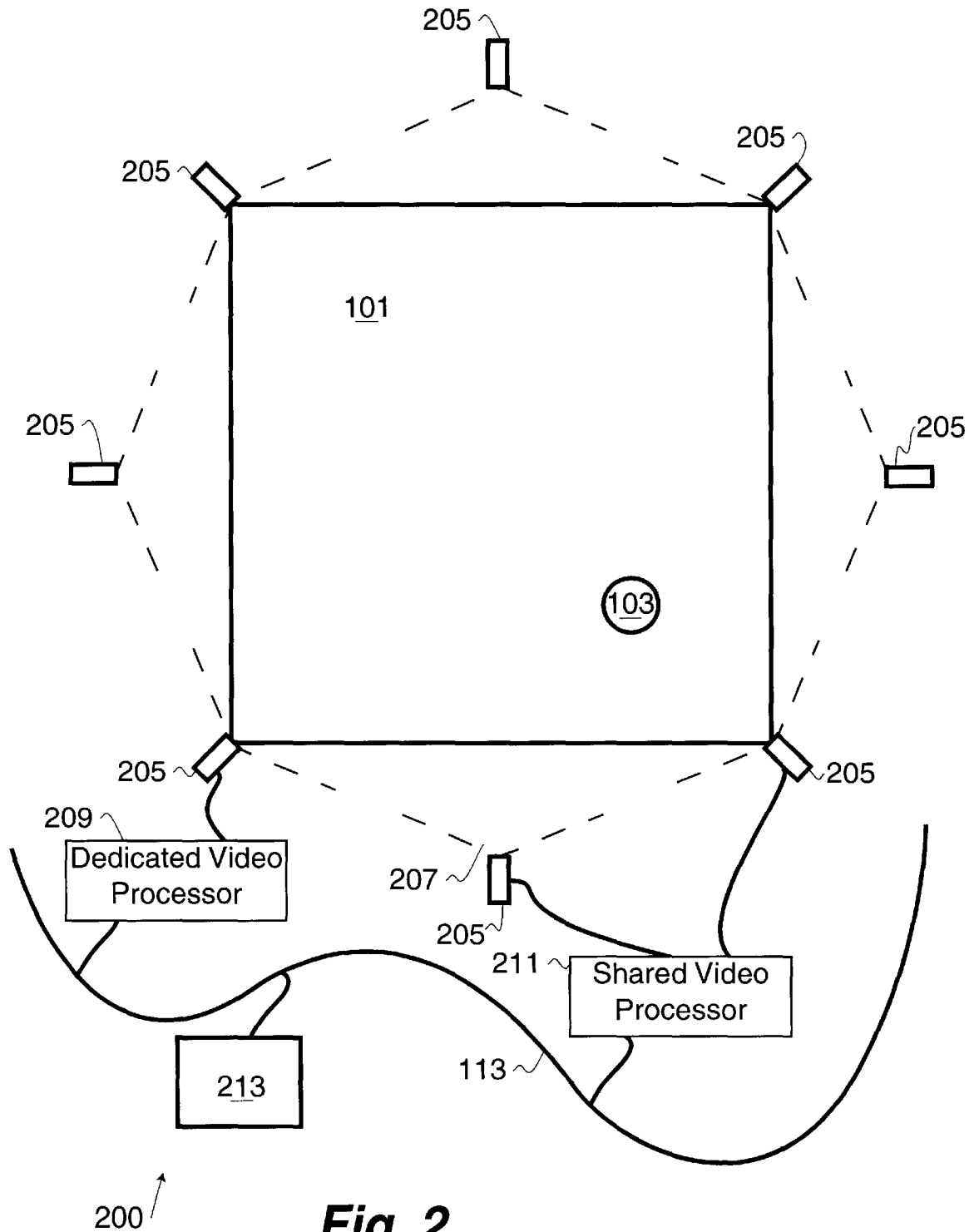


Fig. 2

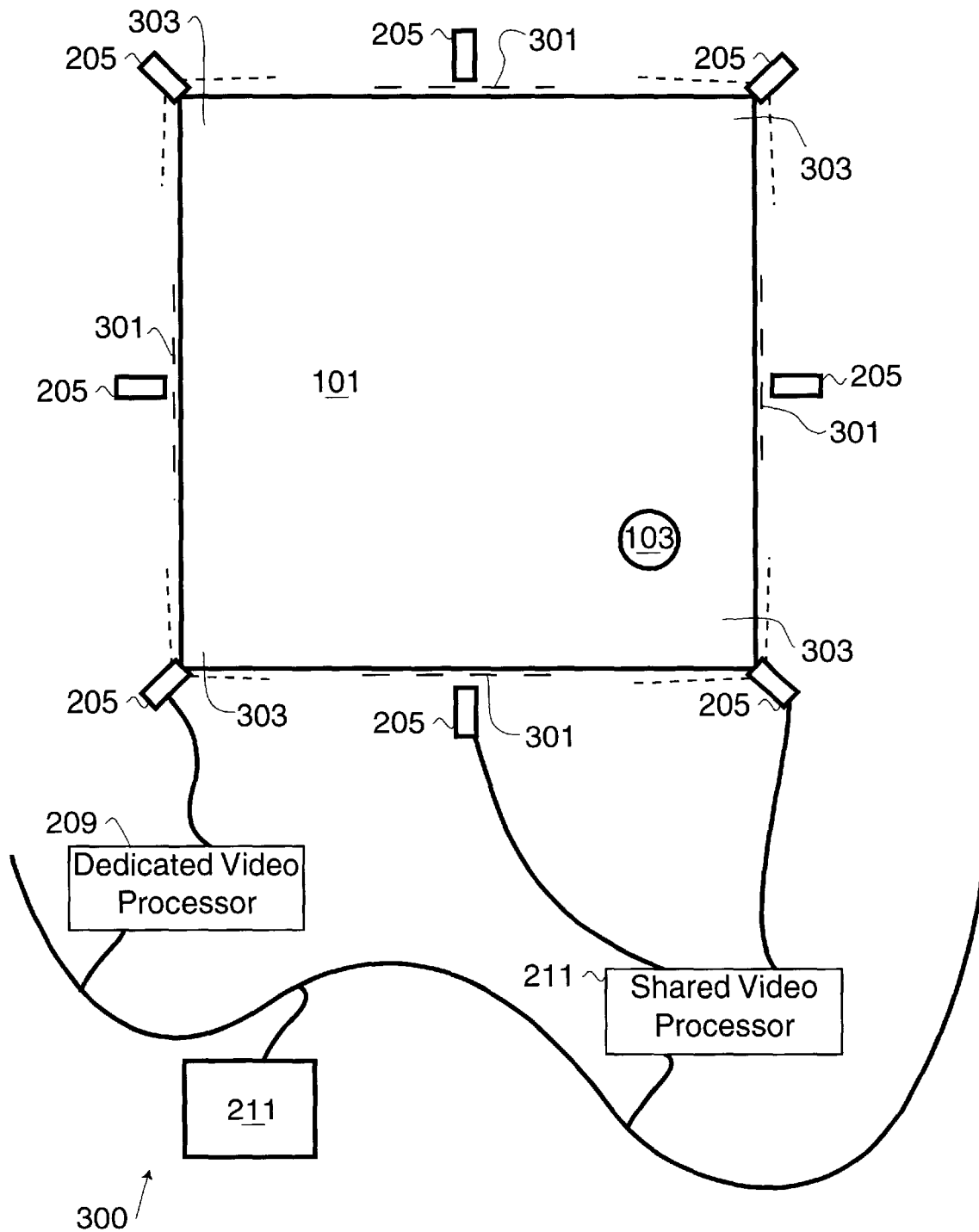


Fig. 3

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