

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0214544 A1 Holzer et al.

Jun. 27, 2024 (43) **Pub. Date:**

(54) DRONE BASED CAPTURE OF MULTI-VIEW INTERACTIVE DIGITAL MEDIA

(71) Applicant: Fyusion, Inc., San Francisco, CA (US)

(72) Inventors: Stefan Johannes Josef Holzer, San Mateo, CA (US); Stephen David

Miller, Menlo Park, CA (US); Radu Bogdan Rusu, San Francisco, CA (US)

(73) Assignee: **Fyusion, Inc.**, San Francisco, CA (US)

Appl. No.: 18/593,867

(22) Filed: Mar. 2, 2024

Related U.S. Application Data

- Continuation of application No. 16/813,506, filed on Mar. 9, 2020, now Pat. No. 11,956,412, which is a continuation of application No. 15/911,993, filed on Mar. 5, 2018, now Pat. No. 11,006,095, which is a continuation of application No. 15/620,506, filed on Jun. 12, 2017, now Pat. No. 10,698,558, which is a continuation of application No. 14/800,638, filed on Jul. 15, 2015, now Pat. No. 9,940,541.
- (60) Provisional application No. 62/377,516, filed on Aug. 19, 2016, provisional application No. 62/466,949, filed on Mar. 3, 2017.

Publication Classification

(51)	Int. Cl.	
	H04N 13/282	(2006.01)
	B64C 39/02	(2006.01)
	B64U 101/30	(2006.01)
	G06F 3/04815	(2006.01)

G06F 3/0488	(2006.01)
G06F 16/51	(2006.01)
G06T 15/20	(2006.01)
G06T 17/00	(2006.01)
G06V 10/10	(2006.01)
G06V 20/10	(2006.01)
G06V 20/17	(2006.01)
G06V 20/70	(2006.01)
H04N 5/262	(2006.01)
H04N 7/18	(2006.01)
H04N 23/698	(2006.01)

(52) U.S. Cl.

CPC H04N 13/282 (2018.05); B64C 39/024 (2013.01); G06F 3/04815 (2013.01); G06F 3/0488 (2013.01); G06F 16/51 (2019.01); G06T 15/205 (2013.01); G06T 17/00 (2013.01); G06V 10/17 (2022.01); G06V 20/10 (2022.01); G06V 20/17 (2022.01); G06V 20/70 (2022.01); H04N 5/2624 (2013.01); H04N 7/185 (2013.01); H04N **23/698** (2023.01); *B64U 2101/30* (2023.01); B64U 2201/10 (2023.01)

ABSTRACT (57)

Various embodiments of the present disclosure relate generally to systems and methods for drone-based systems and methods for capturing a multi- media representation of an entity. In some embodiments, the multi-media representation is digital, or multi-view, or interactive, and/or the combinations thereof. According to particular embodiments, a drone having a camera to is controlled or operated to obtain a plurality of images having location information. The plurality of images, including at least a portion of overlapping subject matter, are fused to form multi-view interactive digital media representations.

