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Dagher et al.

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(54) **IMAGE DATA FUSION SYSTEMS AND METHODS**

(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 380 days.

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(21) Appl. No.: **12/865,343**

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(57) **ABSTRACT**

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Systems and methods for image data fusion include providing first and second sets of image data corresponding to an imaged first and second scene respectively. The scenes at least partially overlap in an overlap region, defining a first collection of overlap image data as part of the first set of image data, and a second collection of overlap image data as part of the second set of image data. The second collection of overlap image data is represented as a plurality of image data subsets such that each of the subsets is based on at least one characteristic of the second collection, and each subset spans the overlap region. A fused set of image data is produced by an image processor, by modifying the first collection of overlap image data based on at least a selected one of, but less than all of, the image data subsets.

(51) **Int. Cl.**

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G06T 5/00	(2006.01)
G06T 5/50	(2006.01)

(52) **U.S. Cl.**

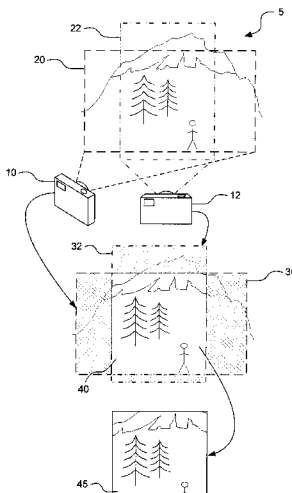
CPC . **G06T 5/50** (2013.01); **G06T 5/004** (2013.01);
G06T 2207/20221 (2013.01); **G06T 2207/10148**
(2013.01)

USPC **382/294**; 382/260

(58) **Field of Classification Search**

CPC G06T 2207/20221
See application file for complete search history.

39 Claims, 18 Drawing Sheets



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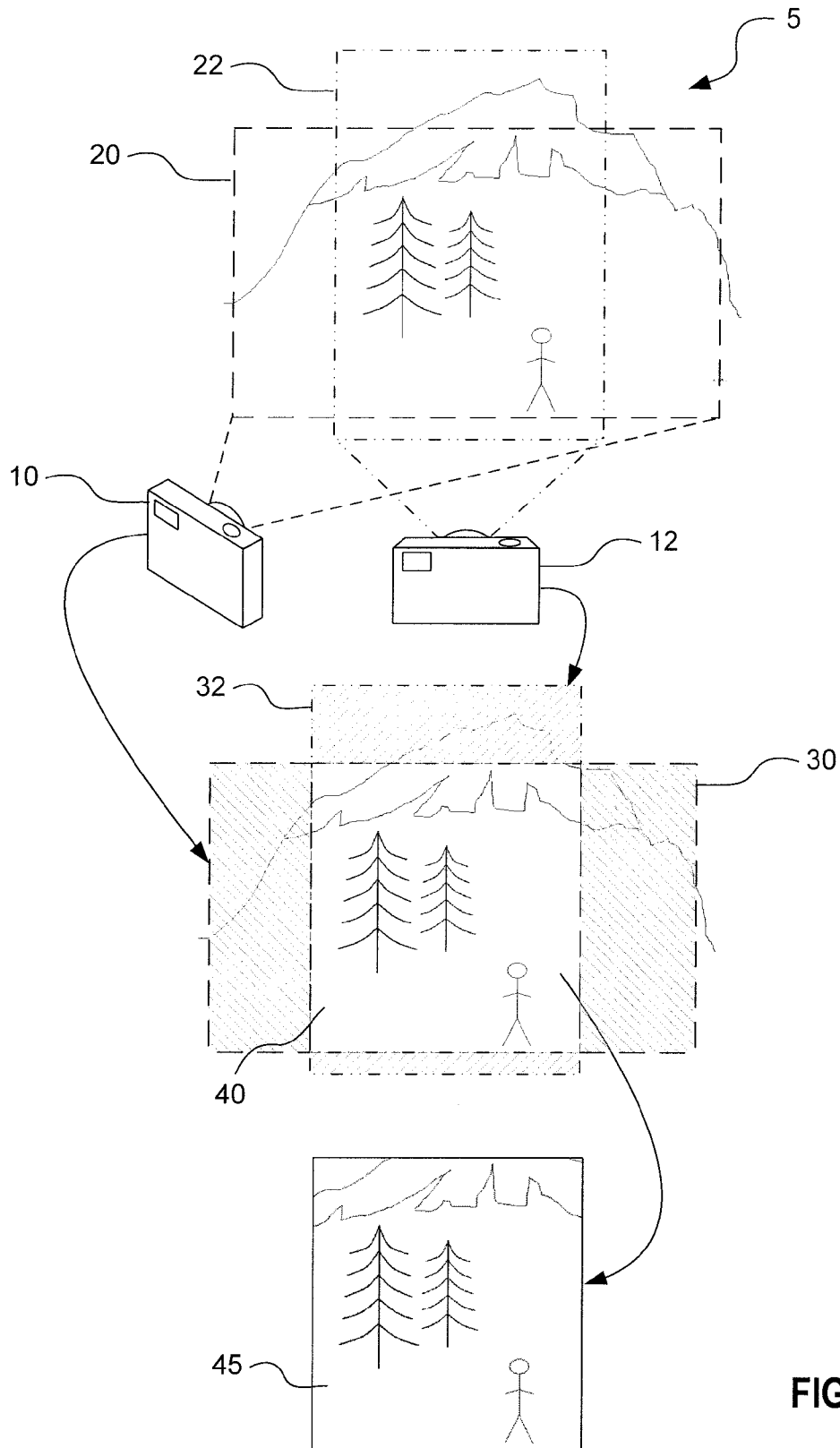


FIG. 1

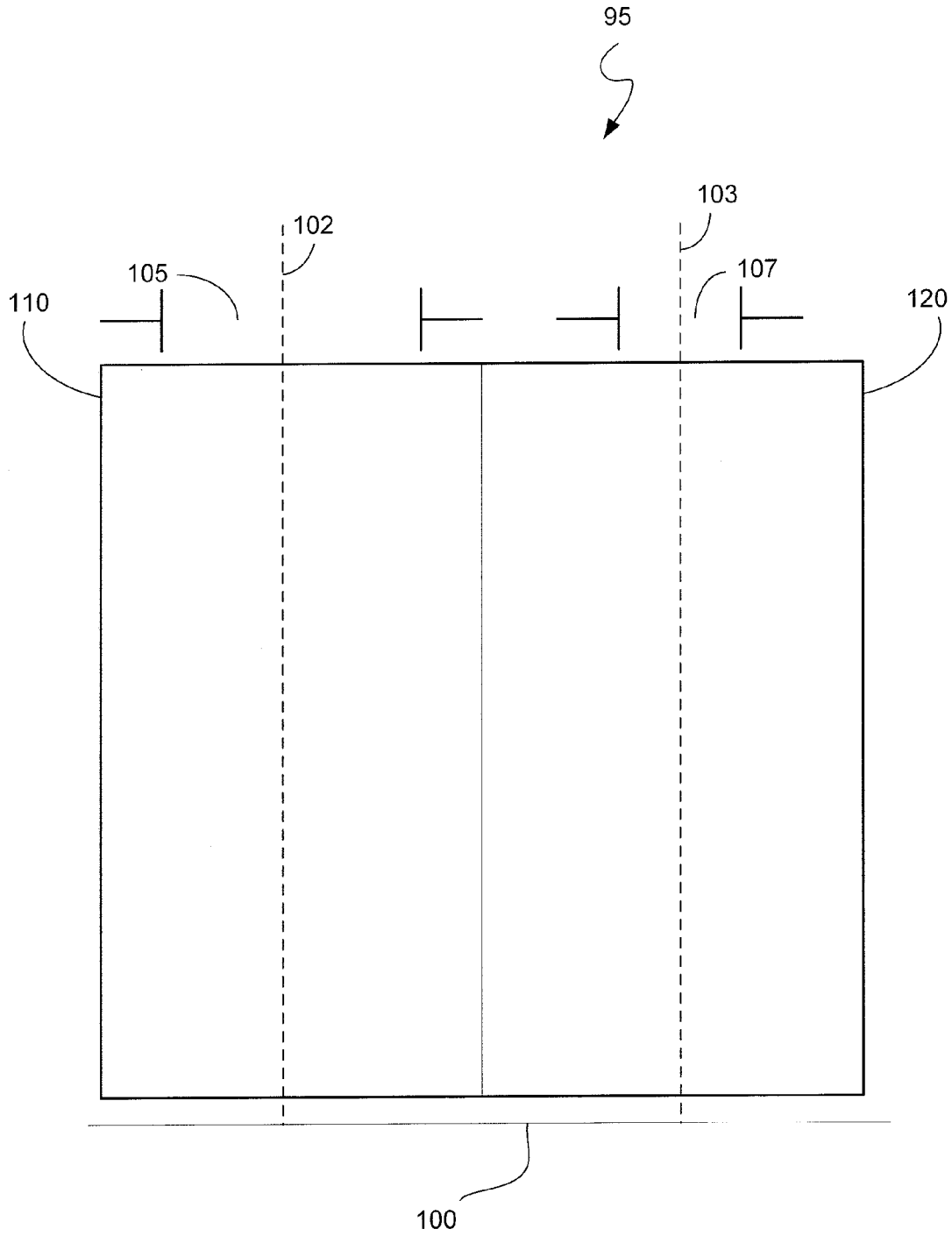


FIG. 2A

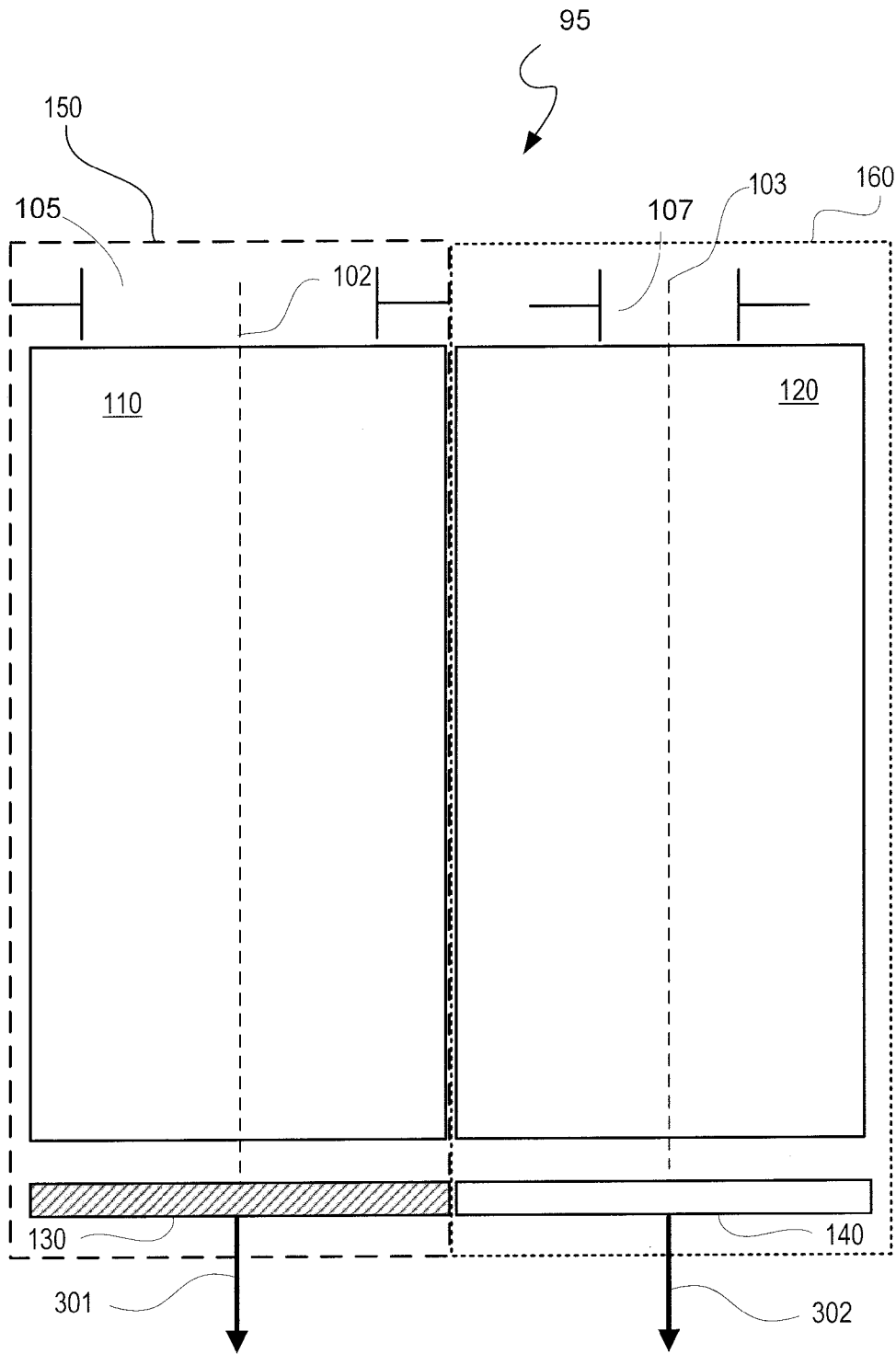


FIG. 2B

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