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Kuo et al.

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(54)	FLEXIBLE ARCHITECTURE FOR IMAGE
	PROCESSING

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(57) ABSTRACT

A system and a method for processing image data in a digital image device such as a digital camera. The present invention includes a bus, a central processing unit coupled to the bus, an image processing subsystem coupled to the central processing unit for processing the image data using a particular processing mode, a memory unit coupled to the bus, and a data storage element for storing the image data after image processing. The memory unit has stored therein an operating system for managing the image processing subsystem, and the memory unit also has a data structure for managing the image data for the image processing subsystem during image processing. The data structure provides an interface between the operating system and the image processing subsystem, such that the operating system is independent of the processing mode used by the image processing subsystem.

30 Claims, 15 Drawing Sheets

