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Cohen et al.

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(54) **DUAL APERTURE ZOOM CAMERA WITH VIDEO SUPPORT AND SWITCHING / NON-SWITCHING DYNAMIC CONTROL**

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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 0 days.

This patent is subject to a terminal disclaimer.

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CPC ..... **H04N 5/23296** (2013.01); **H04N 5/2258** (2013.01); **H04N 5/23216** (2013.01); **H04N 5/23245** (2013.01)

(58) **Field of Classification Search**

CPC ..... H04N 5/23296; H04N 5/23216; H04N 5/23245; H04N 5/2258

See application file for complete search history.

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(57) **ABSTRACT**

A dual-aperture zoom digital camera operable in both still and video modes. The camera includes Wide and Tele imaging sections with respective lens/sensor combinations and image signal processors and a camera controller operatively coupled to the Wide and Tele imaging sections. The Wide and Tele imaging sections provide respective image data. The controller is configured to output, in a zoom-in operation between a lower zoom factor (ZF) value and a higher ZF value, a zoom video output image that includes only Wide image data or only Tele image data, depending on whether a no-switching criterion is fulfilled or not.

**19 Claims, 5 Drawing Sheets**

