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Applicants: Essential Products, Inc.  
Inventors: Xiaoyu Miao  
Andrew E. Rubin  
Agents: Perkins Coie LLP

Priority Data:  
Title: (EN) Intelligent camera  
Abstract: (EN)

Presented here is technology to efficiently process camera images to generate artistic images and videos using an artificial intelligence module receiving inputs from multiple sensors. Multiple sensors can include a depth sensor, a conventional camera, and a motion tracker providing inputs to the artificial intelligence module. Based on the inputs, the artificial intelligence module can segment the received image and/or video into a foreground image and a background image to produce portrait imagery by blurring the background image and/or video. The artificial intelligence module can select the most aesthetically pleasing image from a video. In addition, the artificial intelligence module can adjust lighting in an image or video to create artistic lighting effects. All the processing can be done in real time due to efficient combination of artificial intelligence modules, traditional image processing techniques, and use of specialized hardware.

