

ABSTRACT OF THE DISCLOSURES

MOTION DETECTION IN VIDEO SIGNALS

Methods and apparatus, including computer program products, implementing and using techniques for distinguishing false motion from true motion, in a video signal that is received by a television set. The video signal is received at the television set. The
5 video signal includes a luma component and a chroma component. A motion detection operation is performed for each of the chroma component and the luma component in several frequency regions of the received video signal. Each frequency region has a unique, adjustable threshold value for distinguishing false motion from true motion, that is dynamically adjustable based on the incoming video signal, and as a result the motion
10 detection accuracy is improved and image artifacts are minimized in an image that is described by the video signal and is to be displayed on the television set.