Title (en)

METHOD AND APPARATUS FOR TRANSITIONS, REVERSE PLAY AND OTHER SPECIAL EFFECTS IN DIGITAL MOTION VIDEO

Title (de)

VERFAHREN UND VORRICHTUNG FÜR ÜBERBLENDUNGEN, RÜCKWÄRTSWIEDERGABE UND ANDERE TRICKEFFEKTE BEI DIGITALEM BEWEGTBILDVIDEO

Title (fr)

PROCEDE ET DISPOSITIF POUR FONDU ENCHAINE, DEFILEMENT INVERSE ET AUTRES EFFETS SPECIAUX APPLIQUES A L'IMAGE ANIMEE VIDEO NUMERIQUE

Publication

**EP 0882358 A2 19981209 (EN)**

Application

**EP 97908727 A 19970220**

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Abstract (en)

[origin: WO9730544A2] Disclosed is a method and apparatus for frame-transition effects, frame-specific access and reverse play in digitally compressed motion video, such video complying with the MPEG-1 standard. Transitions between two frames of video are effectuated by selecting a FROM frame and a TO frame, generating a stream of bidirectionally dependent duplicator frames which vary in their motion vector references to the FROM frame and the TO frame according to a predefined pattern, placing the FROM frame in the past buffer of a decoder, placing the TO frame in the future frame of a decoder, feeding the stream of duplicator frames to the decoder, causing the duplicator frames to be displayed, and beginning normal playback of the video stream containing the TO frame at the TO frame position. Frame-specific access is accomplished by determining the location of the target frame, determining the type of the target frame, identifying the reference frames to which the target frame directly and indirectly refers, parsing the reference frames with a decoder while the decorder's video display is suppressed, enabling the video display, and beginning normal decoder playback at the target frame location in said video bitstream. Reverse play is accomplished by employing this process for successive target frames where each target frame chosen immediately precedes the previous target frame in display order.

IPC 1-7

**H04N 5/76**

IPC 8 full level

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