PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04N 7/50

A1

(11) International Publication Number: WO 99/63760

(43) International Publication Date: 9 December 1999 (09.12.99)

(21) International Application Number: PCT/SG98/00038

(22) International Filing Date: 30 May 1998 (30.05.98)

(71) Applicant *(for all designated States except US)*: SGS–THOMSON MICROELECTRONICS ASIA PACIFIC (PTE) LTD. [SG/SG]; 28 Ang Mo Kio Industrial Park 2, Singapore 569508 (SG).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: HUI, Yau, Wai, Lucas [SG/SG]; 10H Braddell Hill #24–31, Singapore 579727 (SG).

(74) Agent: DONALDSON & BURKINSHAW; P.O. Box 3667, Singapore 905667 (SG).

(81) Designated States: JP, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

(54) Title: SEQUENCE ADAPTIVE BIT ALLOCATION FOR PICTURES ENCODING

(57) Abstract

A method and apparatus for encoding pictures of a moving pictures sequence according to an overall target bit–rate, such as in a MPEG video encoder. Each picture has an assigned picture coding type for which a quality factor is adaptively determined according to past bit usages, so that bits can be adaptively allocated amongst picture types for optimizing visual quality of the encoded pictures.

