



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04B	A2	(11) International Publication Number: WO 99/04497 (43) International Publication Date: 28 January 1999 (28.01.99)
(21) International Application Number: PCT/KR98/00169 (22) International Filing Date: 18 June 1998 (18.06.98) (30) Priority Data: 1997/33253 16 July 1997 (16.07.97) KR (71) Applicant (for all designated States except US): SAMSUNG ELECTRONICS CO., LTD. [KR/KR]; 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do 442-373 (KR). (72) Inventors; and (75) Inventors/Applicants (for US only): LEE, Yung, Lyul [KR/KR]; 2-506, Keukdong Apt., 192, Karak-dong, Songpa-gu, Seoul 138-160 (KR). PARK, Hyun, Wook [KR/KR]; D-2, Kwahakwon Apt., 109, Heogi-dong, Dongdaemun-gu, Seoul 130-050 (KR). (74) Agent: LEE, Young, Pil; The Cheonghwa Building, 1571-18, Seocho-dong, Seocho-gu, Seoul 137-073 (KR).		(81) Designated States: AU, BR, CA, CN, DE, ES, GB, JP, RU, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>

(54) Title: SIGNAL ADAPTIVE FILTERING METHOD, SIGNAL ADAPTIVE FILTER AND COMPUTER READABLE MEDIUM FOR STORING PROGRAM THEREFOR

(57) Abstract

A signal adaptive filtering method for reducing blocking effect and ringing noise, a signal adaptive filter, and a computer readable medium. The signal adaptive filtering method capable of reducing blocking effect and ringing noise of image data when a frame is composed of blocks of a predetermined size includes the steps of: (a) generating blocking information for reducing the blocking effect and ringing information for reducing the ringing noise, from coefficients of predetermined pixels of the upper and left boundary regions of the data block when a frame obtained by deconstructing a bit-stream image data for inverse quantization is an intraframe; and (b) adaptively filtering the image data passed through inverse quantization and inverse discrete cosine transform according to the generated blocking information and ringing information. Therefore, the blocking effect and ringing noise can be eliminated from the image restored from the block-based image, thereby enhancing the image restored from compression.

