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- (71) **Applicant (for all designated States except US):** **SAM-SUNG ELECTRONICS CO., LTD.** [KR/KR]; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742 (KR).
- (72) **Inventors:** **CHOI, Byeong-doo**; 203-801 Cheonggu 2-cha Apt., Daeya-dong, Siheung-si, Gyeonggi-do 429-717 (KR). **CHO, Dae-sung**; 104-1701 Yeoksam e-Pyeonhansesang Apt., Yeoksam 2-dong, Gangnam-gu, Seoul 135-926 (KR). **JEONG, Seung-soo**; 201-605 Family Apt., Munjeong-dong, Songpa-gu, Seoul 138-767 (KR).
- (74) **Agent:** **Y.P.LEE, MOCK & PARTNERS**; Koryo Building, 1575-1 Seocho-dong, Seocho-gu, Seoul 137-875 (KR).
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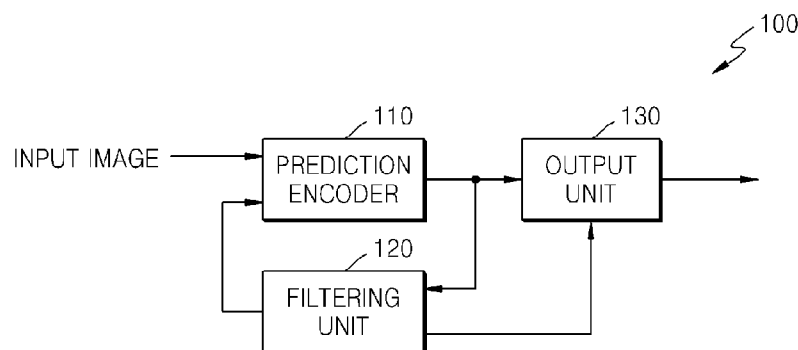
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(54) **Title:** METHODS AND APPARATUSES FOR ENCODING AND DECODING IMAGE USING ADAPTIVE FILTERING

[Fig. 1]



(57) **Abstract:** Provided are methods and apparatuses for encoding and decoding an image by using adaptive filtering. The method of encoding an image by using adaptive filtering includes: determining a filter to be applied to a reference frame used for prediction encoding of a current block to be encoded, by adaptively changing a size and filter coefficients of the filter; filtering the reference frame by using the determined filter; prediction encoding the current block by using the filtered reference frame; and outputting data of the prediction encoded current block and information about the filter.

A. CLASSIFICATION OF SUBJECT MATTER***H04N 7/32(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04N 7/32; H04N 7/26; H04N 7/12; H04N 11/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

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eKOMPASS(KIPO internal) & Keywords:"adaptive filtering,prediction,reference frame"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2009-0290637 A1 (LAI PO-LIN et al.) 26 November 2009 See abstract, Fig.1 and page 1,[0010]-page 2,[0014],page 3,[0032].	1,7,14-15 2-6,8-13
Y A	US 2010-0284461 A1 (ANDERSSON KENNETH et al.) 11 November 2010 See abstract, Fig.1a and page 1,[0005]-page 3,[0028].	1,7,14-15 2-6,8-13
A	US 2009-0225842 A1 (CHEON MIN-SU et al.) 10 September 2009 See abstract, Fig.1,5 and claim 1.	1-15
A	US 2006-0291557 A1 (ALEXANDROS TOURAPIS) 28 December 2006 See abstract and claim 1.	1-15



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KIM, Young Tae

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