

**BASIC INFORMATION**

Application No.:	200104872-7	Filing date:	03/02/2000
PCT Application No.:	PCT/KR00/00089		
Publication Number:	82861		
Priority claimed:	05/02/1999 US 60/118,742		
Title of Invention:	COLOR IMAGE PROCESSING METHOD AND APPARATUS THEREOF		
Applicant/Proprietor:	SAMSUNG ELECTRONICS CO., LTD. (KR) 416 MAETAN-DONG PALDAL-GU SUWON-CITY KYUNGI-DO 442-373 REPUBLIC OF KOREA THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (US) 12TH FLOOR 1111 FRANKLIN STREET OAKLAND CA 94607-5200 CALIFORNIA UNITED STATES OF AMERICA		
Inventor(s):	SHIN, HYUN, DOO 510-1302 MUJIGAE MAEUL CHEONGGU APT., 221 KUMI-DONG BUNDANG-GU SUNGNAM-CITY KYUNGI-DO 463-500 REPUBLIC OF KOREA CHOI, YANG, LIM 102-1112 WOOMAN SUNKYUNG APT., 105 WOOMAN-DONG PALDAL-GU KYUNGI-DO 442-190 REPUBLIC OF KOREA DENG, YINING DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING UNIVERSITY OF CALIFORNIA SANTA BARBARA CA 93106-9560 CALIFORNIA UNITED STATES OF AMERICA MANJUNATH, B.S. DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING UNIVERSITY OF CALIFORNIA SANTA BARBARA CA 93106-9560 CALIFORNIA UNITED STATES OF AMERICA		
International Patent Classification:	G06T 1/00, G06T 7/60		
Patent Agent:	HAQ & NAMAZIE PARTNERSHIP		
PCT Publication No.:	WO 00/46748		

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SINGAPORE PATENT APPLICATION NUMBER

2001 04872-7

Note: [Law] – Reference to the Patents Act also includes a corresponding reference to the Patents Rules.
Please tick (✓) relevant box ☐ after the corresponding checks and confirmations have been made.

- 1 **APPLICANTS**
Reference includes Section 19 [Law] ☒ • Confirm that there are no changes (name/ address/ legal entity), since filing.
- 2 **INVENTORS**
Reference includes Section 24 [Law] ☒ • Confirm that there are no changes (name/ address) since the mention of inventors was furnished.
☒ • If there are changes, confirm that steps have been taken to meet statutory requirements.
- 3 **AGENTS (if any)**
Reference includes rule 90 [Law] ☒ • Confirm that the Declaration of Authorization (where applicable) has been furnished.
☒ • Confirm that there are no changes (name/address for service/entity), since filing.
☒ • If there are changes, confirm that steps have been taken to meet statutory requirements.
- 4 **PRIORITY CLAIMS (if any)**
Reference includes Section 17 [Law] ☒ • Confirm (if any) that the details furnished in the patent application are in order.
☒ • Confirm that the Statutory requirements (including deadlines & the furnishing of translations) are met.
- 5 **INTERNATIONAL EXHIBITIONS (if relevant)**
Reference includes Section 14 [Law] ☒ • Confirm (where relevant) that the statutory requirements (including deadlines) are met.
- 6 **BUDAPEST TREATY (if relevant)**
Reference includes 4th Schedule [Law] ☒ • Confirm (where relevant) that the statutory requirements (including deadlines) are met.
- 7 **FILING DATE NOTIFICATION**
Reference includes Section 26 [Law] ☒ • Confirm that the statutory requirements are met.
☒ • For PCT (SG) National Phase Entry applications, please confirm that the National Phase entry requirements are met. Confirm also on the following:
 - ☒ For Chapter I entries, SG had been designated, and for Chapter II entries, SG had been elected.
 - ☒ National Phase entries were made before the expiry of the prescribed deadlines.
 - ☒ Necessary Translations have been furnished and within the prescribed deadlines
- 8 **FORMALITIES EXAMINATION**
Reference includes Section 28 [Law] ☒ • Confirm that the statutory requirements (including deadlines) are met.
- 9 **SEARCH/EXAM REPORT OR EQUIVALENTS**
Reference includes Section 29 [Law] ☒ • Confirm that the statutory requirements (including deadlines) are met.
- 10 **PRE-GRANT AMENDMENTS**
Reference includes Sections 31, 84 [Law] ☒ • If made, confirm that the statutory requirements (including deadlines) are met.
- 11 **CORRECTIONS**
Reference includes Section 107 [Law] ☒ • If sought, confirm that the statutory requirements are met.
- 12 **DESCRIPTION, CLAIMS & DRAWINGS (if any Drawings)**
Reference includes Sections 25, 31, 84 [Law] ☒ • if, during the course of the application, replacement sheets have been furnished, please confirm the replacement sheets include a duly marked copy and correspond with the sheets to be replaced.
☒ • For PCT (SG) National Phase entry where translations to the PCT application were furnished, please also confirm that the replacement sheets* (if any) and/or translations thereof, correspond with the sheets to be replaced.
☒ • *Amendments might also have been made during the International Phase. Please also refer to the International Preliminary Examination Report for the PCT (SG) Chapter II applications.
- 13 **EXTENSIONS OF TIME**
Reference includes Section 115 [Law] ☒ • If sought, confirm that the statutory requirements (including deadlines) are met.
- 14 **GRANT OF PATENT**
Reference includes Sections 30, 32 [Law] ☒ • Confirm that the statutory requirements (including deadlines) are met.

Upon completion of this form, please enter name of applicant/ agent & date of completion before attaching it with Patent Form 14.

Murgiana Haq of Haq & Selvam

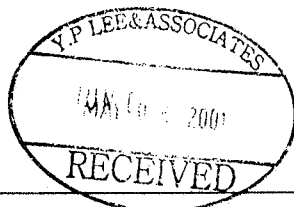
6001431592 5 Aug 03

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:
J.E.E. Young Pil

Cheonghwa Bldg., 1571-18, Seocho-dong, Seocho-gu, Seoul
137-073, Republic of KOREA



PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing
(day/month/year) 30 MAY 2001 (30.05.2001)

Applicant's or agent's file reference
SH-14646-PCT

IMPORTANT NOTIFICATION

International application No.

PCT/KR00/00089

International filing date (day/month/year)

03 FEBRUARY 2000 (03.02.2000)

Priority date (day/months/year)

05 FEBRUARY 1999 (05.02.1999)

Applicant

Samsung Electronics Co., Ltd. et al

1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**
The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/KR

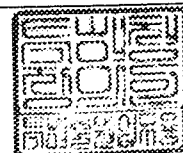
Korean Intellectual Property Office
Government Complex-Daejeon, Dunsan-dong, Seo-gu,
Daejeon Metropolitan City 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5210



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SH-14646-PCT	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/KR00/00089	International filing date (day/month/year) 03 FEBRUARY 2000 (03.02.2000)	Priority date (day/month/year) 05 FEBRUARY 1999 (05.02.1999)	
International Patent Classification (IPC) or national classification and IPC IPC7 G06T 1/00, G06T 7/60			
Applicant Samsung Electronics Co., Ltd. et al			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

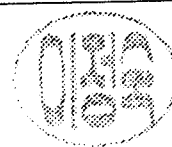
☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 14 AUGUST 2000 (14.08.2000)	Date of completion of this report 26 MAY 2001 (26.05.2001)
Name and mailing address of the IPEA/KR Korean Intellectual Property Office Government Complex-Daejeon, Dunsan-dong, Seo-gu, Daejeon Metropolitan City 302-701, Republic of Korea Facsimile No 82-42-472-7140	Authorized officer LEE, Jung Suk Telephone No 82-42-481-5789



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR00/00089

I. Basis of the report

1. With regard to the elements of the international application:*

☒ the international application as originally filed☐ the description:

pages _____

pages _____

pages _____

, as originally filed

, filed with the demand

, filed with the letter of _____

☐ the claims:

pages _____

pages _____

pages _____

pages _____

, as originally filed

, as amended (together with any statement) under Article 19

, filed with the demand

, filed with the letter of _____

☐ the drawings:

pages _____

pages _____

pages _____

, as originally filed

, filed with the demand

, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____

pages _____

pages _____

, as originally filed

, filed with the demand

, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages _____☐ the claims, Nos. _____☐ the drawings, sheet _____5. ☐ This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR00/00089

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-39	YES
	Claims	NO
Inventive step (IS)	Claims 1-39	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-39	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report.

D1: JP 11-238077 A, MINOLTA CO., LTD.

D2: KR 98-022999 A, DAEWOO ELECTRONICS CO., LTD.

A color image processing method for retrieving a color feature is used and described in the above mentioned documents. But the features of the invention which is applied to an object-based image processing method are not described in the documents.

Consequently claims 1-39 are novel. (PCT Article 33(2))

None of the cited documents teaches the concept of fast search and retrieval of multi-media contents for MPEG-7.

Because the subject-matter of claims 1-39 is not rendered obvious by the state of the documents, these claims also meet the requirements of PCT Article 33(3). (inventive step)

Claims 1-39 fulfil the requirements of PCT Article 33(4).