

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To: CHUNG, Sang sup #804 Han-shin IT Tower II, 60-18 Gasan-dong, Geumcheon-gu Seoul 153-801 Republic of Korea

Date of mailing (day/month/year) 30 MARCH 2006 (30.03.2006)

Applicant's or agent's file reference 2005-PCT-396	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/KR2005/003237	International filing date (day/month/year) 30 SEPTEMBER 2005 (30.09.2005)	Priority date(day/month/year) 30 JUNE 2005 (30.06.2005)
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International Patent Classification (IPC) or both national classification and IPC B82B 3/00(2006.01)i

Applicant HAN, Sang wook

1. This opinion contains indications relating to the following items:
- Box No. I Basis of the opinion
 - Box No. II Priority
 - Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - Box No. IV Lack of unity of invention
 - Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - Box No. VI Certain documents cited
 - Box No. VII Certain defects in the international application
 - Box No. VIII Certain observations on the international application



2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Date of completion of this opinion 28 MARCH 2006 (28.03.2006)	Authorized officer LEE, Young Jae Telephone No.82-42-481-8304 
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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/003237

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- a sequence listing
 table(s) related to the sequence listing

b. format of material

- on paper
 in electronic form

c. time of filing/furnishing

- contained in the international application as filed.
 filed together with the international application in electronic form.
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-5	YES
	Claims	_____	NO
Inventive step (IS)	Claims	1-5	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims	_____	NO

2. Citations and explanations :

The present invention relates to a nano-silver sealant composition comprising polydimethylsiloxane, a crosslinking agent, a filler, petroleum hydrocarbon, aminosilane and silver nanoparticles, and a method for the preparation of a nano-silver sealant using the same.

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

D1 : US6,660,058 B1 (09 December 2003)

D2 : US 6,534,581 B1 (18 March 2003)

D3 : US 6,416,847 B1 (09 July 2002)

1. Novelty and Inventive Step

D1 discloses the preparation method for nanoparticles of silver and silver alloyed with other elements such as platinum (Pt), palladium (Pd), gold (Au), aluminum (Al), Cadmium (Cd) and sulfur (S) in surfactant solutions

D2 discloses a silicon composition prepared by mixing an organopolysiloxane containing an average of at least two silicon-bonded hydroxy groups per molecule and a crosslinking agent in an amount sufficient to cure the composition for preparing a silicon adhesive.

D3 discloses a metallized article and method for making the article, including a substrate having a polyurethane basecoat disposed thereon, with a layer of electrically discrete metallic islands of a corrosion prone metal disposed on the basecoat.

However, none of the documents D1-D3 disclose a nano-silver sealant composition comprising polydimethylsiloxane, a crosslinking agent, a filler, petroleum hydrocarbon, aminosilane and silver nanoparticles. Accordingly, the present invention is not considered to be easily invented from the inventions disclosed in D1-D3 by a person skilled in the art.

Therefore, claims 1-5 meet the criteria set out in PCT Article 33(2) and (3) with respect to novelty and inventive step.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

2. Industrial Applicability

Therefore, the novelty and inventive step of the present invention can be acknowledged, and claimed 1 to 4 appear to be meet the requirement of PCT Article 33(4).