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*A61K 8/64* (2006.01)      *A61Q 19/08* (2006.01)  
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**WO 2011/011808 A1**

(54) Title: A COSMETIC COMPOSITION COMPRISING SODIUM CHLORIDE IN COMBINATION WITH ONE OR MORE OF PROTEIN, COLLAGEN, GELATIN OR AMINO ACID

(57) Abstract: A cosmetic composition comprising sodium chloride in combination with one or more of protein, collagen, gelatin or amino acid and its uses thereof.

**A COSMETIC COMPOSITION COMPRISING SODIUM CHLORIDE IN COMBINATION WITH ONE OR MORE OF PROTEIN, COLLAGEN, GELATIN OR AMINO ACID**

Description:

[0001]Salt/Seasalt(sodium chloride) is used long time in History to heal Skinillness.

To use this power not only in a bath, set asunder to have this the whole day on the skin, to get a long time healing-effect/nutritionsupply; we must bind it with some binding-agents.

[0002]Protein, Collagen or Gelatin have as naturally glue or binding-agents the best presupposition in this matter; additionally having all 3 substances some Amino acids integrated. Protein, collagen and gelatin bind the water and Salt(sodium chloride) in the best way; this gives us the best result what we need on the skin. We have a combination of water: which gives us the moisturizing and the salt which gives us the nutritionsupply.

[0003]With the water we bring the amino acids to the surface from the protein, collagen or gelatin. These Amino acids can now react with the salt(sodium chloride). The salt don't have only the work to do with the nutritionsupply, additionally it react with the amino acids and brings up the [0004]CO<sub>2</sub>/carbon dioxide. CO<sub>2</sub> it self is useful for the cosmetic surgeon or dermatologist to perform skin resurfacing what reduce or eliminate the pronounced lines and wrinkles and to stimulate the regeneration of a healthy skin underneath. We found out: amino acids and salt(sodium chloride) alone, react to strong to use it, self thinning with water was to strong or it doesn't worked any more.

[0005]Amino acids=essential or non essential have the capability to renew the skin-cells or other cells. It is a accelerator for woundhealing and faster grow of protein. Protein react faster in the grow specially with essential amino acids. Amino acids react fast, but don't can go a long distance in the acceleration.

[0006]And here comes the Protein or Collagen or Gelatin to it, with this 3 substances combine or ones itself, we get a continuous flow of amino acids. Specially in the woundhealing, here gives us all three substances a good result. Its accelerate the working order of albumin and globulin in the blood. The wound is closing faster as normal.

Treated with Salt and warm water, helped us to let the flow from CO<sub>2</sub> to be slow and steady and another plus was the moisturizing with water to the skin, slow and steady; result: a Mask on the surface of the skin was created from the Protein or collagen or gelatin or combine together.

## 2.

[0007] After days it was still working with really good results. The skin contracted and all wrinkle are gone.

We achieve a result up to 10 days as this mask holding with this combination on a face of a woman under normal conditions / for a every day working person.

[0008]The high point of the CO<sub>2</sub> treatment was on the 5 day. The skin was working 5 days with it and from the 5 day on it was going down to the 10 day. On the 11 day the Person looks like normal before and the skin had the same look as normal before. For a better result in healing of the skin or to get [0009] a better result in the treatment of the wrinkles/ageing of the skin, we will recommend a 4-5 day cycle, to get a optimum of a result, with a long time healing effect or a long time anti-wrinkle or anti-ageing result.

[0010]Protein or collagen or gelatin or combine the 3 together + Amino acids + Salt(sodium chloride) is a powerful and treatment combination, it doesn't matter the condition of these: in fluid form or in dry form, as powder or as granulate. In fluid-form for a roll on Bottle or other was created for a day to day basis.

[0011]In dry form as powder or granulate has the combination a more powerful form to reach a better result in what we want: anti-ageing and anti-wrinkle in our skin.

[0012]The salt(sodium chloride) is working as peeling on the skin, old Skin scales get loose and the new skin underneath is free; the salt has the second work to sterilize the surface of the skin, make it ready for the treatment with the CO<sub>2</sub>; the third work is the release of minerals to the skin.

[0013]With the treatment of warm water, the salt combine with the amino acids and react to CO<sub>2</sub>, from now on the Protein/collagen/gelatin make a thin mask over the skin and slowing the process of the reaction down. The protein or collagen or gelatin release slowly the amino acids and these is reacting slowly.

[0014] The Amino acids have a second task, its reacting with the skin and stimulate the growth of the cells in the skin, the gelatin/protein/collagen as mask over it gives the skin a smoother surface and the new growing/underneath, coming skin-cells don't grow in the path of the wrinkles, there grow straight in the path of the smoother skin, so does the

[0015]new skin is smoother in the outcome of the treatment. Such a treatment takes time, it takes 30 days to change the surface of the skin, to grow the new layer of skin in the new path of the smoother surface from the holding mask.

[0016]To get a better understanding, the 10 day cycle from 1 treatment: the outer skin is smooth, but it get back to his old path after the 10 days; so when you want the new layers or the skin grow in the new path of the smooth outer skin, you need to hold the smooth skin in place for a minimum of 30 days(this is the cycle of the skin-growing-time).

## 3.

[0017]It is possible to add more amino acids to the powder/granulate, but be aware of the reaction of these, people can get headache or other problems. With the combination of salt its possible to treat scars or other skin-illness, but not open wounds(this can be painful).

[0018]For a wound it would be better a combination of Protein or collagen or gelatin with additional/supplementary amino acids in a small amount to get a reaction with the body, its stimulate the growth of the cells and gives him with the Protein/gelatin/collagen a naturally fine cover/skin to breath.

[0019]All amino acids can be used to stimulate the body-cells. We don't found a really big difference in the reacting with the body from different amino acids; but essential amino acids are generally better for the body-cells.

[0020]For the Wound-dressing: the wound is open and need to stop the bleeding: the collagen stops with a thin skin over the wound the bleeding and the amino acids starts to stimulate the Protein-cells to stop the bleeding and to grow faster with the cells, so the wound close down faster. It can be any Protein-cell, from the tissue or from the blood.

[0021]Important is the wound-dressing with the collagen + amino acids can be topped every time as it is needed, this gives these product a unique style. Self when the wound was dressed before with the collagen + amino acids, the amino acids with the new dressing found his way to stimulate the wound and there cells. For a better healing: the wound gets closed, here the collagen + amino acids stimulate the growth of the tissue.

[0022]Additional effects from amino acids and the 4 substances to the skin : the skin is getting lighten up and shiny, so people with dark rendering around the eyes or anywhere else, can use it to light up this problematic zones.

[0023] Additional effects to the skin: The combination of these Substances (Gelatin, Collagen, Protein, Amino acids, Sodium Chloride) alone or a variety from this cause a contraction of the skin, it can be so heavy the body-shape gets a new form. By some people lift the bottom/buttocks up, around 5cm lift up the form, self around the thigh was the skin tighten up and give the person a nice strengthen feeling. Cellulite visible on buttocks or thigh, was after treatment gone or very hard to detect.

[0024] This contraction can be done anywhere on the body. It is so strong you can shape a body with it and hold in position over a couple of days and with a stronger combination of the substances over a longer period up to 2 month with one treatment.

This can be used as surgical compression like the compression stockings/pantyhose or others. It will be found some other new forms to use this contraction of the skin.

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4.

**We Claim:**

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1. We claim any kind of 1)Protein, 2)Collagen, 3)Gelatin, 4)Amino acids and 5)Salt[sodium chloride] itself or combine any from this 1) to 5) substances in any combination or % from every substance is a remedy for Anti-ageing and Anti-wrinkle to the skin.
2. We claim any kind of 1)protein, 2)collagen, 3)gelatin, 4)amino acids and 5)Salt[sodium chloride] itself or combine any from this 1) to 5) substances in any combination or % from every substance is a remedy for wound-healing and Wound-dressing, its stimulate a instant grow to the proteins(any blood- or tissue-cells/protein) and cover the wound with a breathing skin.
3. We claim any kind of 1)protein, 2)collagen, 3)gelatin, 4)amino acids and 5)Salt[sodium chloride] itself or combine any from this 1) to 5) substances in any combination or % from every substance cause a contraction of the skin up to shape the body-form new, it can contract up to 8cm around the body.
4. We claim any kind of 1)protein, 2)collagen, 3)gelatin, 4)amino acids and 5)Salt[sodium chloride] itself or combine any from this 1) to 5) substances in any combination or % from every substance light up the skin/the pigmentation(the skin lights up and get shiny).
5. According to claim 1&2&3&4 to the 1) to 5) substances can be in any form: liquid form or as powder- or as granulate- or in solid-form; the form don't make any difference.
6. According to claim 1&2&4 in any combination or % of the substances 1) to 5) is one treatment visible and holding up between 2 to 60 days the Anti-ageing and Anti-wrinkle from the skin and the contraction & lighten up of the skin.
7. According to claim 1&2&3&4 it can be used in any combination or % from this 1) to 5) Substances or one itself, combined in/with any cosmetic or medical carrier/transporter in chemical or biological form, in liquid- or powder- or granulate- or solid- or cream- or spray-form.
8. According to claim 1&2 the substances 1) to 5) can be used as healing remedy for skin-illness.
9. According to claim 1&3&4 the substances 1) to 5) is preventing our skin from pollution of the environment.
10. According to claim 1&2&3&4 it can be used by humans and animals/pets.
11. According to claim 1&2&3& 4 it can be combined with any other substances.
12. According to claim 3 it can shrink the visibility of cellulite to zero% or nil.

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# INTERNATIONAL SEARCH REPORT

International application No.

**PCT/AU2009/000963**

**A. CLASSIFICATION OF SUBJECT MATTER**

Int. Cl.

<i>A61K 8/21 (2006.01)</i>	<i>A61K 8/98 (2006.01)</i>	<i>A61K 38/39 (2006.01)</i>	<i>A61Q 19/02 (2006.01)</i>
<i>A61K 8/64 (2006.01)</i>	<i>A61K 38/00 (2006.01)</i>	<i>A61K 38/39 (2006.01)</i>	<i>A61Q 19/06 (2006.01)</i>
<i>A61K 8/65 (2006.01)</i>	<i>A61K 38/02 (2006.01)</i>	<i>A61P 17/00 (2006.01)</i>	<i>A61Q 19/08 (2006.01)</i>

Action Date: 25 November 2009

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)

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPOQUE, WPIDS, Medline: protein, sodium chloride, collagen, gelatin, amino acid and related terms

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/010282 A1 (STRATEGIC SCIENCE & TECHNOLOGIES INC, LLC) 3 NOVEMBER 2005 (See entire document in particular page 4 lines 12-31, page 6 lines 4-6 and 11-15, page 10 lines 14-16 and 31-32, page 17 lines 19-21, page 18 lines 5-11 and 23-33, table 3, claims 1, 13, 14, 57, 58, 60-64, 66, 69, 73, 107)	1 - 12
X	EP 0 385 155 A2 (KLEIN P) 5 SEPTEMBER 1990 (See entire document in particular abstract, page 3 lines 15-49)	1 - 12
X	US 2009/131537 A1 (WILLIE JR) 21 MAY 2009 (See entire document in particular abstract, [0001], [0014], [0055], claims 6, 11-16 examples 3-4)	1 - 12

Further documents are listed in the continuation of Box C       See patent family annex

* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 25 November 2009	Date of mailing of the international search report <b>21 DEC 2009</b>
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Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustrialia.gov.au Facsimile No. +61 2 6283 7999	Authorized officer <b>ROSELLE MAILVAGANAM</b> AUSTRALIAN PATENT OFFICE (ISO 9001 Quality Certified Service) Telephone No : +61 2 6225 6112
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2009/000963

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2009/016629 A2 (HEALOR LTD.) 5 FEBRUARY 2009 (See entire document in particular abstract, page 1 lines 9-11, page 5 lines 17-21 and 24-28, page 10 lines 12-20, page 17 lines 3-8, page 25 lines 28-31, claims 1-2, 7-12)	1 - 12
X	WO 2008/082525 A1 (NATIONAL STEM CELL INC) 10 JULY 2008 (See entire document in particular [005], [007], [008], [059], [064], [065], claims 15-18)	1 - 12
X	US 2005/277568 A1 (KEENAN D. M. et al.) 15 DECEMBER 2005 (See entire document in particular [0025]-[0026], [0045], [0047], [0051], [0074], [0075], tables 1, 2A, 3A, 4A, 6A and 7, claims 1, 12)	1 - 12
X	US 2009/105336 A1 (FOSSEL E. T.) 23 APRIL 2009 (See entire document in particular [0008], [0012], [0022], [0027], [0046], [0047], [0053]-[0056], table 3, claims 1, 10, 16, 24-25, 29, 32, 33, 35)	1 - 12
X	WO 2006/015675 A1 (HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN) 16 FEBRUARY 2006 (See entire document in particular abstract, [0003], [0013]-[0015], example)	1 - 12
X	US 2004/265268 A1 (JAIN D.) 30 DECEMBER 2004 (See entire document in particular [0006], [0032], [0033], [0035], [0039], claims 1-4, 10 - 20)	1 - 12
X	WO 2005/067867 A1 (KOSE CORPORATION) 28 JULY 2005 (See entire document in particular abstract, examples 10, 11 and 15)	1 - 12
X	US 2007/154424 A1 (KONNO Y. et al.) 05 JULY 2007 (See entire document in particular [abstract, [0010]-[0014], [0019], [0022], examples 10 and 15, claims 1-8)	1 - 12
X	FR 2 864 445 A1 (THOREL J. N. and GATTO H.) 1 JULY 2005 (See entire document in particular abstract, table 2)	1 - 12
X	US 2002/041903 A1 (FOSSEL E. T.) 11 APRIL 2002 (See entire document in particular [0002], [0008], [0014], [0020], [0053]-[0056], table 3, claims 1, 2, 7, 9, 12, 20, 21, 31)	1 - 12
X	JP 2002-308783 A (GEO KK) 23 OCTOBER 2002 (See entire document in particular abstract, examples 1-5)	1 - 12
X	WO 2003/005979 A2 (BEIERSDORF AG) 23 JANUARY 2003 (See entire document in particular [0001], [0022], [0044], [0067], [0071], [0073], [0074], [0076], [0102], claims 7, 10, 11, 13-15)	1 - 12

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2009/000963

C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 432 710 B1 (BOSS JR W. K. et al.) 13 AUGUST 2002 (See entire document in particular [0031], [0033], [0053], [0059], claims 48, 50, 53, 58 and 60)	1 - 12
X	WO 2002/000272 A2 (BIO SYNTECH CANADA INC.) 3 JANUARY 2002 (See entire document in particular page 1 lines 5-11, page 19 lines 10-27, page 20 lines 1-4, claims 2-8, 11-12, 21-22.)	1 - 12
X	WO 2000/072872 A1 (HUMAN GENOME SCIENCES, INC.) 7 DECEMBER 2000 (See entire document in particular page 1 lines 4-8, page 2 lines 20-26, page 4 lines 3-14, page 6 lines 10-13 and 24-27, page 7 lines 1-5, page 21 lines 13-19, examples 1-4, claims 1-4, 21 - 23, 39)	1 - 12
X	WO 1999/060951 A1 (ISOLAGEN TECHNOLOGIES, INC.) 2 DECEMBER 1999 (See entire document in particular claims 1 - 3, 5)	1 - 12
X	WO 2000/007465 A1 (TOH-MEN CO., LTD.) 17 FEBRUARY 2000 (See entire document in particular abstract, examples 1 and 12)	1 - 12



# INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2009/000963

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:  
See Supplemental Box I for explanation.

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2009/000963

## Supplemental Box I

(To be used when the space in any of Boxes I to IV is not sufficient)

### Continuation of Box No: III

The International Search Report and the Written Opinion of the International Searching Authority was restricted to the composition comprising sea salt (sodium chloride) in combination with another ingredient selected from protein, collagen, gelatin and amino acids as advised by the Applicant during the telephone conversations of 5 November 2009 and 6 November 2009.

Following conversation with the Applicant, it is considered that this International Application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept.

In assessing whether there is more than one invention claimed, I have given consideration to those features which can be considered to potentially distinguish the claimed combination of features from the prior art. Where different claims have different distinguishing features they define different invention.

This International Searching Authority has found that there are different inventions as follows:

Invention 1: claims 1 – 12 (in part) are directed to a composition comprising a combination of protein and sodium chloride/sea salt and its uses thereof.

Invention 2: claims 1 – 12 (in part) are directed to a composition comprising a combination of collagen and sodium chloride/sea salt and its uses thereof.

Invention 3: claims 1 – 12 (in part) are directed to a composition comprising a combination of gelatin and sodium chloride/sea salt and its uses thereof.

Invention 4: claims 1 – 12 (in part) are directed to a composition comprising a combination of amino acids and sodium chloride/sea salt and its uses thereof.

PCT Rule 13.2, first sentence, states that unity of invention is only fulfilled when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features. PCT Rule 13.2, second sentence, defines a special technical feature as a feature which makes a contribution over the prior art.

The only feature common to all of the claims is a composition comprising the combination of sodium chloride and another substance. However, this concept is not novel in light of WO 2005/10282 A1 (D1), which discloses the combination of sodium chloride and an amino acid (see page 4 lines 12-31, page 6 lines 4-6 and 11-15, page 10 lines 14-16 and 31-32, page 17 lines 19-21, page 18 lines 5-11 and 23-33, table 3, claims 1, 13, 14, 57, 58, 60-64, 66, 69, 73, 107).

This means that the common feature can not constitute a special technical feature within the meaning of PCT Rule 13.2, second sentence, since it makes no contribution over the prior art.

Because the common feature does not satisfy the requirement for being a special technical feature it follows that it cannot provide the necessary technical relationship between the identified inventions. Therefore the claims do not satisfy the requirement of unity of invention *a posteriori*.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

**PCT/AU2009/000963**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report	Patent Family Member		
WO 2005010282	NONE		
EP 0385155	NONE		
US 2009131537	NONE		
WO 2009016629	NONE		
WO 2008082525	NONE		
US 2005277568	AR 049440	AR 050068	US 7381692
	US 7381693	US 2005276827	US 2005276828
	WO 2005120450	WO 2005121299	WO 2005121300
US 2009105336	AU 2005216192	AU 2005235308	AU 2005235309
	CA 2556967	CA 2563670	CA 2563678
	EP 1732577	EP 1737429	EP 1737441
	US 2008045909	US 2008280984	US 2009123528
	US 2009221536	WO 2005081964	WO 2005102282
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WO 2006015675	DE 102004037753		
US 2004265268	US 2003068297		
WO 2005067867	CN 1909879	KR 20060130613	
US 2007154424	NONE		
FR 2864445	NONE		
US 2002041903	AU 93186/98	CA 2303394	EP 1041880
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	US 6207713	US 6458841	US 2001002405
	US 2003018076	US 2003028169	WO 1999013717
JP 2002308783	NONE		
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US 6432710	AU 40933/99	US 6878383	US 2002197241
	US 2003228286	US 2005186149	US 2007207131
	WO 1999060951		
WO 2002000272	AU 68882/01	BR 0112109	CA 2412505
	CN 1471412	EP 1294414	HK 1055563
	IL 153490	MX PA03000203	NZ 523763

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/AU2009/000963**

	SG	149679	US	7148209	US	2002082220	
	US	2006029578	US	2007037737	ZA	200300597	
WO	2000072872	AU	19057/99	AU	55932/00	CA	2316015
	CA	2375829	CN	1283997	CN	1359299	
	EP	1041996	EP	1196187	MX	PA01012387	
	NZ	505324	NZ	521590	US	6238888	
	US	6653284	US	6869927	US	2002016295	
	US	2004063639	WO	1999032135			
WO	2000007465	AU	49339/99	CA	2305198	JP	2005058239
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							