

**Intellectual Property and Sustainable  
Development: *Documentation and Registration of TK  
and Traditional Cultural Expressions***

**Muscat, Oman**  
**26<sup>th</sup> -28<sup>th</sup> June, 2011**

***“TK Documentation and Defensive  
Protection: An Example from India”***



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# **Traditional Knowledge**



**Oral or Codified**

**Disclosed or undisclosed**

**Misappropriation**

**Innovative Capacity & Wealth  
creation**

# ***Traditional Knowledge***

❖ **Local and not Widely Understood**

❖ *Unstructured in Nature*

❖ **Language & Access Barrier exist**

❖ *Not amenable to digitization  
available Search Engines can  
not retrieve TK*

# **Nature & Complexities of TK/Biodiversity Documentation Projects**

- ❖ Identification & Involvement of holder(s), confidence & trust**
- ❖ Ownership & practical model on sharing of the benefits**
- ❖ Unequal partnership & Alliance**
- ❖ Technological and Societal Barriers**
- ❖ Customary laws, abuse & morality**
- ❖ Safeguarding vs encouragement of misappropriation**
- ❖ Disclosed vs undisclosed TK**
- ❖ Standard & Format**

# TKDL

## OBJECTIVES AND TARGET AUDIENCE



- **Prevent Misappropriation of Indian Traditional Knowledge**
  - Break Format & Language barriers
- **For International Patent Offices only**
- **Multilingual (French, German, Japanese, English & Spanish)**

# PROTECTING TRADITIONAL KNOWLEDGE

## India

- Turmeric
- Neem
- Basmati

**TKDL – TKRC - IPC**



# Extent of Misappropriation

(Ayurveda, Unani & Siddha)

Study Carried Out in March 2000

4896 references on 90 medicinal plants in USPTO patent databases

80% of references on seven medicinal plants of Indian Origin.

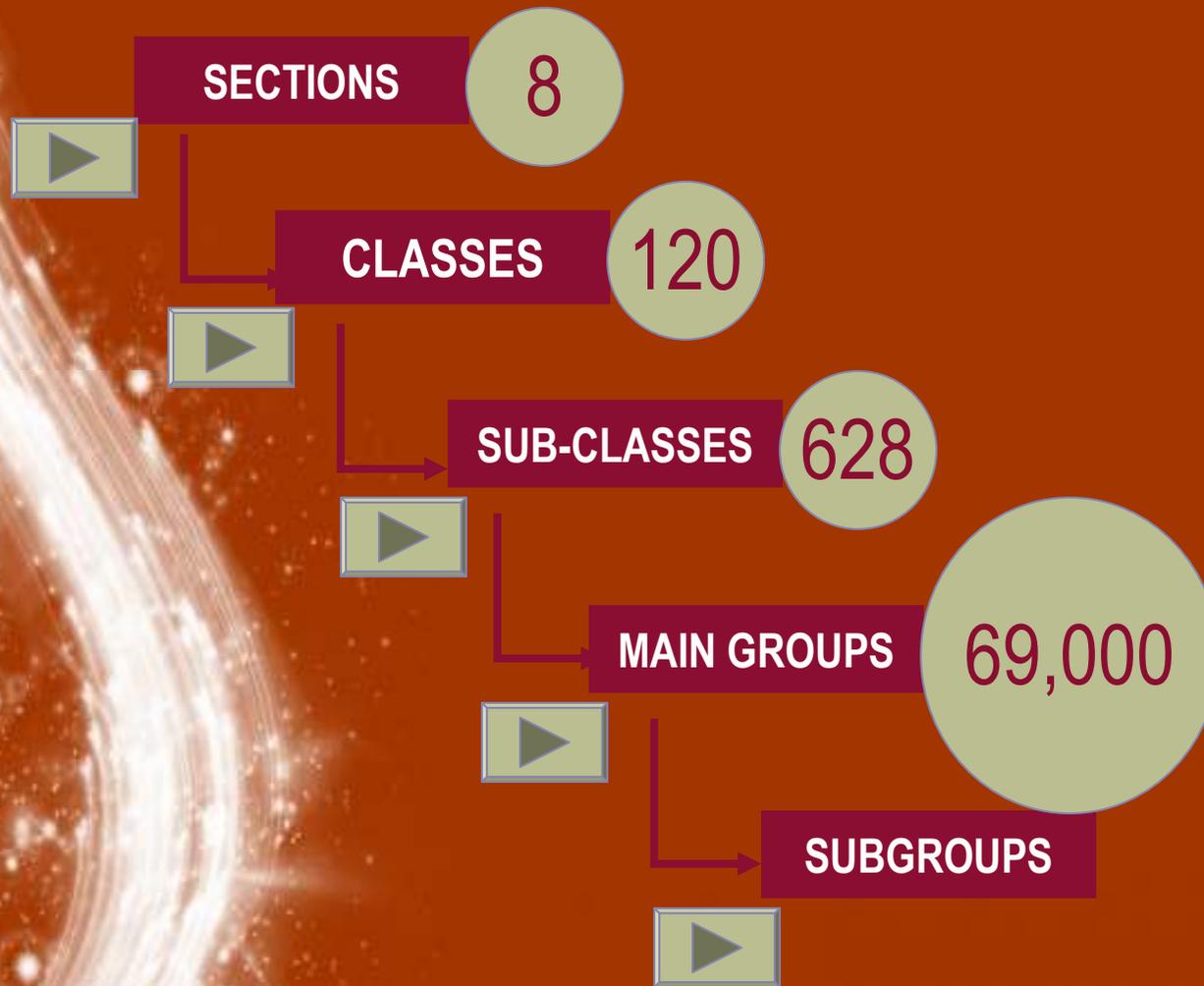
Kumari, Mustaka, Tamraparna,  
Garjara, Atasi, Jambira, Kharbuza

Almost 50% of patents linked to traditional medicine

# STUDIES ON PATENTS ON MEDICINAL PLANTS

■ March 2000	:	4896
■ March 2003	:	15000
■ December 2005	:	35587
■ December 2008	:	85000
■ Medicinal Plant Patents / Year	:	5000
■ Possible Patents concerning Indian Plants / Year	:	4000
■ Possible Patents on Indian system of Medicine on yearly basis	:	2000
■ Annual average Growth Rate between 2000-2008	:	200%

# *IPC and Structure of Classification*

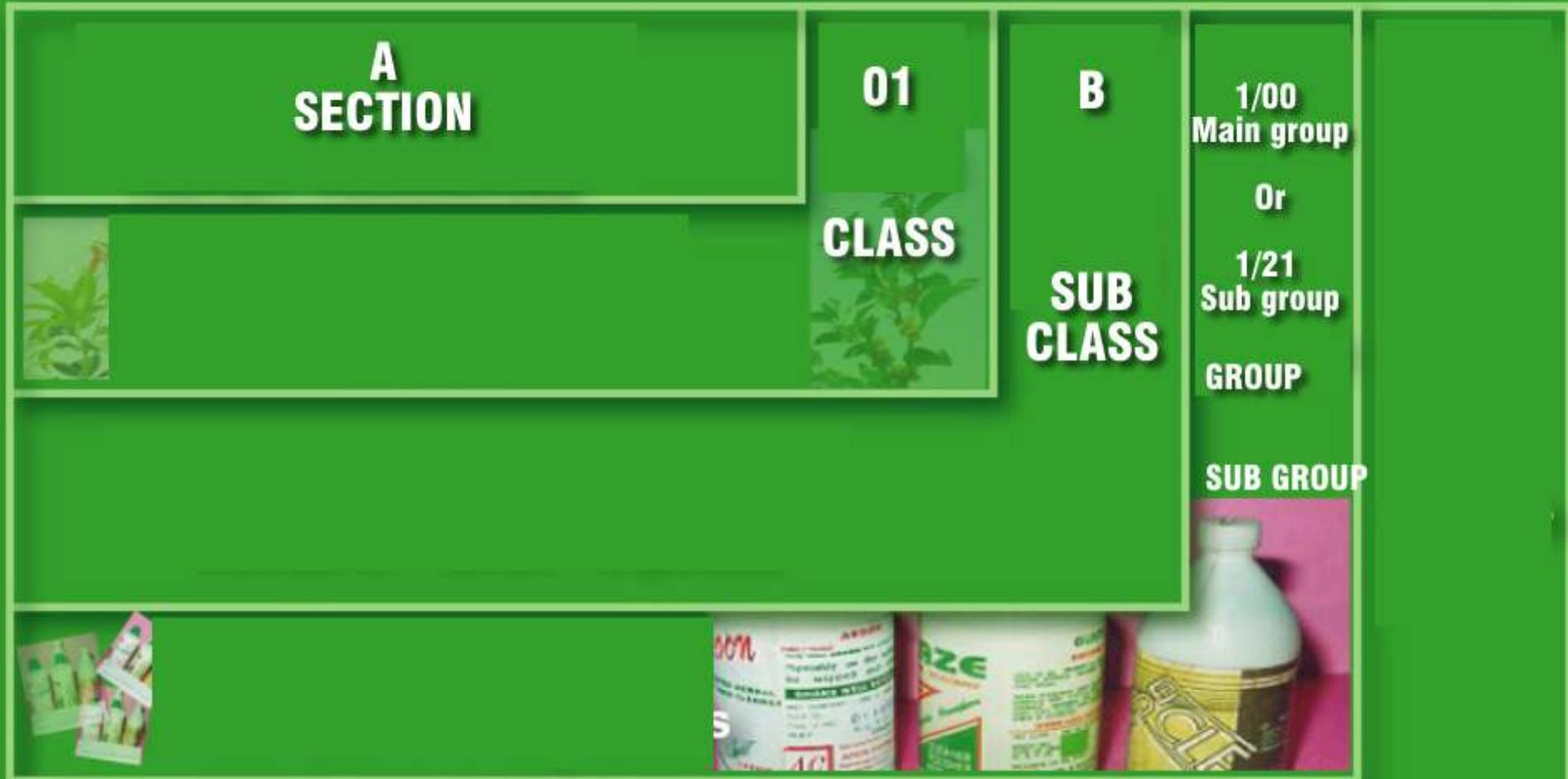


# IPC & Medicinal Plants

<b>A</b> <b>Section</b> <b>Human Necessities</b>	<b>61</b> <b>Class</b>	<b>K</b> <b>Sub Class</b>	<b>35</b> <b>Group</b>	<b>78</b> <b>Sub Groups</b>
 <b>Medical or Veterinary Science; Hygiene</b>				
<b>Preparation for Medical, Dental or Toilet Purposes</b>				
 <b>Extracts of Animal, Plant or Micro-organisms</b>				
<b>Materials from Plants</b>				



# TKRC Classification Symbol



**Section A – Ayurveda; Class 01 – Pharmaceutical Preparations  
Sub-Class B – Based on Animals; Group 1/00 – Based on Animals  
& their Products; Sub-group 1/21 - Milk**

# Stages of Formal Acceptance of Traditional Knowledge Classifications

**Feb 2001**

India Submitted a proposal on inclusion of traditional knowledge at International Patent Classification Union

Task force of five nations constituted by WIPO

**Feb 2002**

Task force recommends creation of subclass in A61 linking Traditional Knowledge Resource Classification developed by India with International Patent Classification

Materials from Plants

# Stages of Formal Acceptance of Traditional Knowledge Classifications

**Feb 2003**

**International Patent Classification  
Union adopted 200 subgroups for  
publication by July, 2005**

Sub  
Groups

**Accords formal recognition and  
acceptance of Traditional Knowledge  
as a distinct discipline at  
international level**

**Oct 2004**

**Deliberations on IPC-TKRC Concordance list of  
the new main group A61K 36/00**

(११८६) शुद्ध्यादि काथः  
(बं० से० । मसू० त्रि०)  
शुद्धी मधुकं रास्ना पञ्चमूलं कनिष्ठकम् ।  
बन्दनं काश्मर्यफलं बलामूलं विकङ्कतम् ॥  
पाककाले मसूर्यान्तु वातजायां प्रयोजयेत् ॥

The  
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United States Pat

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ing for sale, or selling t  
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the invention into the Un  
for the term set forth b  
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any statutory extensions.

John P. Ebd

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## Key Attributes of TKDL

BP/70

English

Title of Traditional Knowledge

**English**

Knowledge Known Since

Guducyadi Kvatha(14)

100 years

**TKRC CODE :** A01A-1/1512, A01A-1/1592, A01A-1/1789, A01A-1/1815, A01A-1/1824, A01A-1/1966, A01A-1/1988, A01A-1/2039, A01A-1/670, A01A-1/920, A01A-3/19, A01D-19/01

**IPCCode :** A61K35/78,A61K9/08,A61P31/12

### DETAILS OF PROCESS / FORMULATION :

**1. Guducyadi Kvatha(14) is a therapeutic single/compound formulation consisting of useful parts of following ingredient(s) Tinospora cordifolia (Guduci), Glycyrrhiza glabra (Yastimadhu, Klitaka (Substitute)), Pluchea lanceolata (Rasna), Desmodium gangeticum (Salaparni), Uraria picta (Prasniparni), Solanum xanthocarpum (Kantakari, Laksamana (Substitute drugs) (Sveta)), Solanum indicum (Brahti), Tribulus terrestris (Goksura), Pterocarpus santalinus (Rakta candana), Gmelina arborea (Gambhari), Sida cordifolia (Bala), Solanum xanthocarpum (Kantakari, Laksamana (Substitute drugs) (Sveta))**

**2. Therapeutic composition/formulation is mentioned below :**

# English

1	<b>Tinospora cordifolia (Guduci)</b>	<b>(Stem)</b>	<b>1</b>	<b>Part</b>
2	<b>Glycyrrhiza glabra (Yastimadhu, Klitaka (Substitute))</b>	<b>(Root)</b>	<b>1</b>	<b>Part</b>
3	<b>Pluchea lanceolata (Rasna)</b>	<b>(Leaf)</b>	<b>1</b>	<b>Part</b>
4	<b>Desmodium gangeticum (Salaparni)</b>	<b>(Root)</b>	<b>0.2</b>	<b>Part</b>
5	<b>Uraria picta (Prasniparni)</b>	<b>(Root)</b>	<b>0.2</b>	<b>Part</b>
6	<b>Solanum xanthocarpum (Kantakari, Laksamana (Substitute drugs) (Sveta))</b>	<b>(Root)</b>	<b>0.2</b>	<b>Part</b>
7	<b>Solanum indicum (Brahti)</b>	<b>(Root)</b>	<b>0.2</b>	<b>Part</b>
8	<b>Tribulus terrestris (Goksura)</b>	<b>(Root)</b>	<b>0.2</b>	<b>Part</b>
9	<b>Pterocarpus santalinus (Rakta candana)</b>	<b>(Heart Wood)</b>	<b>1</b>	<b>Part</b>
10	<b>Gmelina arborea (Gambhari)</b>	<b>(Fruit)</b>	<b>1</b>	<b>Part</b>
11	<b>Sida cordifolia (Bala)</b>	<b>(Root)</b>	<b>1</b>	<b>Part</b>
12	<b>Solanum xanthocarpum (Kantakari, Laksamana (Substitute drugs) (Sveta))</b>	<b>(Whole Plant)</b>	<b>1</b>	<b>Part</b>

# English

3. A composition as described above is formulated as (Decoction / Water Extract)(Kvatha)
4. Therapeutic composition mentioned above is prepared by Kvatha Curna/Kvatha: Drugs are cleaned and dried.
5. It is useful in the treatment of Small pox(Masurika)

## LIST OF DOCUMENTS WITH DATE OF PUBLICATION(PRIOR ART):

**Nagin Das Chagan lal  
Saha**

**Bharat Bhaisjya Ratnakar, Gopi nath Bhisakratnen  
Vol II B. Jain publishers (New Delhi) Ed. Reprint - August 1999.**

従来の知識資源のタイトル

Mañiṣṭhādīkvāthah (Vṛhat) (08)

## Japanese

その後知られている知識

500 years

TKRC Code : A01A-1/1225, A01A-1/1237, A01A-1/1351, A01A-1/1463, A01A-1/1482, A01A-1/1515, A01A-1/1547, A01A-1/1587, A01A-1/1590, A01A-1/1592, A01A-1/16, A01A-1/1664, A01A-1/1740, A01A-1/1824, A01A-1/1864, A01A-1/1883, A01A-1/1935, A01A-1/1938, A01A-1/1966, A01A-1/2000, A01A-1/2147, A01A-1/237, A01A-1/265, A01A-1/291, A01A-1/415, A01A-1/429, A01A-1/44, A01A-1/480, A01A-1/488, A01A-1/513, A01A-1/52, A01A-1/530, A01A-1/538, A01A-1/566, A01A-1/60, A01A-1/603, A01A-1/635, A01A-1/741, A01A-1/759, A01A-1/761, A01A-1/823, A01A-1/880, A01A-1/903, A01A-1/972, A01A-1/989, A01A-2/25, A01A-3/47, A01A-3/9, A01D-1/35, A01D-18/04, A01D-20/25, A01D-21/01, A01D-6/31, A01D-8/07, A01D-8/28, A01D-8/52, A01D-9/07, a01f-1/1 A61K35/78, A61K9/08, A61K9/14, A61P15/00, A61P17/00, A61P19/00, A61P19/02, A61P19/06, A61P21/00,

IPC コード : A61K35/78, A61K9/08, A61K9/14, A61P15/00, A61P17/00, A61P19/00, A61P19/02, A61P19/06, A61P21/00,

のプロセス/ 公式 :

1. Mañiṣṭhādīkvāthah (Vṛhat) (08) 次のような有用な構成成分を含む治療的化合物製剤アカネ・カルジフォリア (マンジスタ), カヤツリグサ (ムスタカ), ホラレナ・アンチダイセンテリカ (クタジャ、インドラヤヴァ), タイノスポラ・コルジフォリア (グドウチ), モッコウ (クスタ), ジンギベル・オフィシネール (アルドラカ), クレロデンドラム・セツラタム (バランギ), ソレナム・ザントカルパム (カンタカリ, ラクサマナ (代用薬品) (スヴェタ)), アヤメガサ (ヴァチャ), アザジラクタ・インジカ (ニンバ), ウコン (ハリドラ), メギ・アリステタ (ダルハリドラ), カラスウリ・ダイオイカ (パトラ), コウレン (カトウキ), コンズランゴ・テネシシマ (ムルワ), エンベリア・ライプス (ヴィダンガ), プロテカルプス (ビジャカ (アサナ)), セイロンマツリ (チタラカ), アスパラガス・レスモサス (サタヴァリ, メダマハメダ (代用薬品)), リンドウ・クッルー (トラヤマツナ, トラヤンティ), キンマ・リングム (ピッパリ), ホラレナ・アンチダイセンテリカ (クタジャ, インドラヤヴァ), アデトダ・ヴシカ (ヴァサ), ダカサプロウ・アルバ (ブリッングラジャ), ヒマラヤスギ・ヒマラヤスギ (デヴァダル), シサンペロス・パレイラ (パタ), アセンヤクノキ (カディラ), シタン (ラクタ・チャンダナ), オペルクリナ・タルパタム (トリワルタ), クラタエヴァ・ヌルヴェラ (ヴァルナ), センプリ・シライタ (キラタティクタ), ソレリア・コリリフォリア (バクキ), ナンバンサイカチ (アルガワダ), ストブラス・アスパル (サクホタカ), センダン・アゼダラク (マハニンバ, カイドリヤ?), ポンゲミア・ピンネタ (カランジャ, ナクタマラ, ウドキリヤ), トリカプト・ヘテロフィツラム (アティヴィサ), サヤバナ・ヴェッティヴェロイデス (ハリベラ), スイカ・コロシンチス (インドラヴァルニ), ヘミデスマス・インジカス (サリヴァ (ウトパラ・サリヴァ)), フェマリア・パルヴィフロラ (パルパタ・ペーダ), ファゴンタ・クレティカ (ダンヴィヤサ), テルミナリア・チェブラ (ハリタキ), テルミナリア・ベツリリカ (ビビタカ), エンブリカ・オフィシユナリス (アマルキー)

2. 治療的構成/製剤は以下の通り

1	アカネ・カルジフォリア (マンジスタ)	(根)	1	パート、部
2	カヤツリグサ (ムスタカ)	(茎・塊茎)	1	パート、部
3	ホラレナ・アンチダイセンテリカ (クタジャ、インドラヤヴァ)	(ステムバーク)	1	パート、部
4	タイノスポラ・コルジフォリア (グドウチ)	(ステム)	1	パート、部
5	モッコウ (クスタ)	(根)	1	パート、部
6	ジンギベル・オフィシネール (アルドラカ)	(根茎)	1	パート、部



RS/08

## Attributs de clef de TKDL

French

Titre de ressource traditionnelle de la connaissance

La Connaissance Connue Depuis

Mañjiṣṭhādikvāthaḥ (Vṛhat) (08)

500 années

**TKRC Code :** A01A-1/1225, A01A-1/1237, A01A-1/1351, A01A-1/1463, A01A-1/1482, A01A-1/1515, A01A-1/1547, A01A-1/1587, A01A-1/1590, A01A-1/1592, A01A-1/16, A01A-1/1664, A01A-1/1740, A01A-1/1824, A01A-1/1864, A01A-1/1883, A01A-1/1935, A01A-1/1938, A01A-1/1966, A01A-1/2000, A01A-1/2147, A01A-1/237, A01A-1/265, A01A-1/291, A01A-1/415, A01A-1/429, A01A-1/44, A01A-1/480, A01A-1/488, A01A-1/513, A01A-1/52, A01A-1/530, A01A-1/538, A01A-1/566, A01A-1/60, A01A-1/603, A01A-1/635, A01A-1/741, A01A-1/759, A01A-1/761, A01A-1/823, A01A-1/880, A01A-1/903, A01A-1/972, A01A-1/989, A01A-2/25, A01A-3/47, A01A-3/9, A01D-1/35, A01D-18/04, A01D-20/25, A01D-21/01, A01D-6/31, A01D-8/07, A01D-8/28, A01D-8/52, A01D-9/07, a01f-1/1

**Code d'IPC :** A61K35/78, A61K9/08, A61K9/14, A61P15/00, A61P17/00, A61P19/00, A61P19/02, A61P19/06, A61P21/00, A61P25/00, A61P27/00, A61P27/02, A61P29/00, A61P3/04, A61P3/06, A61P31/00, A61P31/08, A61P33/00, A61P43/00

**DÉTAILS DU PROCESSUS/DE FORMULATION :**

1. Mañjiṣṭhādikvātha<sup>a</sup> (Vṛhat) (08) composé thérapeutique contenant des parties utiles des ingrédients suivants Rubia cordifolia (Manjichtha), Cyperus rotundus (Moustaka), Holarrhena antidysenterica (koutadja, indrayava), Tinospora cordifolia (Goudouchi), Saussurea lappa (Koustha), Zingiber officinale (Ardraka), Clerodendrum serratum (Bharangi), Solanum xanthocarpum (Kantakari, Lakchamana (Drogue en remplacement) (Chwéta)), Acorus calamus (vatcha), Azadirachta indica (Nimba), Curcuma longa (Haridra), Berberis aristata (dârouharidrâ), Trichosanthes dioica (Patôla), Picrorhiza kurroa (Katouki), Marsdenia tenacissima (Mourva), Embelia ribes (Vidangâ), Pterocarpus marsupium (Beedjaka (âsana)), Plumbago zeylanica (Tchitraka), Asparagus racemosus (chatâvari, médâmahâméda (Drogue en remplacement)), Gentiana kurroo (Trâyamana Trâyanti), Piper lingum (Pippali), Holarrhena antidysenterica (koutadja, indrayava), Adhatoda vasica (Vatcha), Eclipta alba (Bhringarâdja), Cedrus deodar (dévadârrou = le cèdre (déodar)), Cissampelos pareira (Patha), Acacia catechu (Khadira), Pterocarpus santalinus (Rakta chandana), Operculina turpethum (Trivṛta), Crataeva nurvala (Varuna), Swertia chirayita (Kirâtatikta), Psoralea corylifolia (Bakouci), Cassia fistula (argavadha), Streblus asper (Sakhôtaka), Melia azedarach (Mahânimba, Kaidrya?), Pongamia pinnata (Karandja, Naktamâla, Oudkirya), Aconitum heterophyllum (ativicha), Coleus vettiveroides (haribéra), Citrullus colocynthis (Indravarouni), Hemidesmus indicus (Sariva (Outpala sariva)), Fumaria parviflora (Parpata bhédâ (U)), Fagonta cretica (Dhanavayassa), Terminalia chebula (Haritaki), Terminalia bellirica (Bibheetaka), Emblica officinalis (Amalki)

2. formulation composé thérapeutique est mentionnée ci-dessous



RS/08

## Schlüssel-Attribute von TKDL

German

**Titel traditionellem Wissen Hilfsmittel****Wissen Seit dem Bekannt****Mañjiṣṭhādikvāṭhaḥ (V̄ḥat) (08)**

500 Jahre

**TKRC Code :** A01A-1/1225, A01A-1/1237, A01A-1/1351, A01A-1/1463, A01A-1/1482, A01A-1/1515, A01A-1/1547, A01A-1/1587, A01A-1/1590, A01A-1/1592, A01A-1/16, A01A-1/1664, A01A-1/1740, A01A-1/1824, A01A-1/1864, A01A-1/1883, A01A-1/1935, A01A-1/1938, A01A-1/1966, A01A-1/2000, A01A-1/2147, A01A-1/237, A01A-1/265, A01A-1/291, A01A-1/415, A01A-1/429, A01A-1/44, A01A-1/480, A01A-1/488, A01A-1/513, A01A-1/52, A01A-1/530, A01A-1/538, A01A-1/566, A01A-1/60, A01A-1/603, A01A-1/635, A01A-1/741, A01A-1/759, A01A-1/761, A01A-1/823, A01A-1/880, A01A-1/903, A01A-1/972, A01A-1/989, A01A-2/25, A01A-3/47, A01A-3/9, A01D-1/35, A01D-18/04, A01D-20/25, A01D-21/01, A01D-6/31, A01D-8/07, A01D-8/28, A01D-8/52, A01D-9/07, a01f-1/1

**IPC Code :** A61K35/78, A61K9/08, A61K9/14, A61P15/00, A61P17/00, A61P19/00, A61P19/02, A61P19/06, A61P21/00, A61P25/00, A61P27/00, A61P27/02, A61P29/00, A61P3/04, A61P3/06, A61P31/00, A61P31/08, A61P33/00, A61P43/00

### DETAILS DES PROZESSES/DER FORMULIERUNG :

1. Mañjiṣṭhādikvāṭhaḥ (V̄ḥat) (08) ist eine therapeutische Mischung, die aus folgenden Zutaten besteht: Rubia cordifolia (Manjistha), Cyperus rotundus (Mustaka), Holarrhena antidysenterica (Kutajha, Indrajava), Tinospora cordifolia (Guduki), Saussurea lappa (Kustha), Zingiber officinale (Ardraka), Clerodendrum serratum (Bharangi), Solanum xanthocarpum (Kantakari, Lakschmana (Ersatzdroge) (Schweta)), Acorus calamus (Vaka), Azadirachta indica (Nimba), Curcuma longa (Haridra), Berberis aristata (Daruharidra), Trichosanthes dioica (Patola), Picrorhiza kurroa (Katuki), Marsdenia tenacissima (Murwa), Embelia ribes (Vidanga), Pterocarpus marsupium (Bijaka (Asana)), Plumbago zeylanica (Kitraka), Asparagus racemosus (Satavari, MedaMahameda (Ersatzdroge)), Gentiana kurroo (Trajamaṇa, Trajanti), Piper longum (Pippali), Holarrhena antidysenterica (Kutajha, Indrajava), Adhatoda vasica (Vasa), Eclipta alba (Bhringaraja), Cedrus deodar (Devadaru), Cissampelos pareira (Patha), Acacia catechu (Khadira), Pterocarpus santalinus (Rakta-Tschandana), Operculina turpethum (Trivrita), Crataeva nurvala (Varuna), Swertia chirayita (Kiratatikta), Psoralea corylifolia (Bakuzi), Cassia fistula (Argavadha), Streblus asper (Sakhotaka), Melia azedarach (Mahanimba, Kādrja?), Pongamia pinnata (Karanja, Naktamala, Udkirja), Aconitum heterophyllum (Ativisa), Coleus vettiveroides (Haribera), Citrullus colocynthis (Indrawaruni), Hemidesmus indicus (Sariva (Utpala sariva)), Fumaria parviflora (Parpata-Bheda (U)), Fagontia cretica (Dhanvaiasa), Terminalia chebula (Haritaki), Terminalia bellirica (Bibhitaka), Emblica officinalis (Amalki)

2. Therapeutische Mischung/Formulierung ist unten erwähnt :

1	Rubia cordifolia (Manjistha)	(Wurzel)	1	Anteil
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RS/08

## Cualidades de la llave de TKDL

Spanish

Título del recurso tradicional del conocimiento

Conocimiento Sabido Desde entonces

Mañjiṣṭhādīkṡvāṭhaḥ (Vṛhat) (08)

500 años

**TKRC Code :** A01A-1/1225, A01A-1/1237, A01A-1/1351, A01A-1/1463, A01A-1/1482, A01A-1/1515, A01A-1/1547, A01A-1/1587, A01A-1/1590, A01A-1/1592, A01A-1/16, A01A-1/1664, A01A-1/1740, A01A-1/1824, A01A-1/1864, A01A-1/1883, A01A-1/1935, A01A-1/1938, A01A-1/1966, A01A-1/2000, A01A-1/2147, A01A-1/237, A01A-1/265, A01A-1/291, A01A-1/415, A01A-1/429, A01A-1/44, A01A-1/480, A01A-1/488, A01A-1/513, A01A-1/52, A01A-1/530, A01A-1/538, A01A-1/566, A01A-1/60, A01A-1/603, A01A-1/635, A01A-1/741, A01A-1/759, A01A-1/761, A01A-1/823, A01A-1/880, A01A-1/903, A01A-1/972, A01A-1/989, A01A-2/25, A01A-3/47, A01A-3/9, A01D-1/35, A01D-18/04, A01D-20/25, A01D-21/01, A01D-6/31, A01D-8/07, A01D-8/28, A01D-8/52, A01D-9/07, a01f-1/1

**Código del IPC :** A61K35/78, A61K9/08, A61K9/14, A61P15/00, A61P17/00, A61P19/00, A61P19/02, A61P19/06, A61P21/00, A61P25/00, A61P27/00, A61P27/02, A61P29/00, A61P3/04, A61P3/06, A61P31/00, A61P31/08, A61P33/00, A61P43/00

### DETALLES EL PROCESO/FORMULACIÓN :

1.Maṅṡiṣṭhādīkṡvāṭhaḥ (Vṛhat) (08) Es una formulación compuesta terapéutica que consiste de las siguientes partes útiles de ingredientes. *Rubia cordifolia* Linn. (rubia, granza), *Cyperus rotundus* Linn. (Mustaka, Ganda-durva (Sustituto)), *Holarrhena antidysenterica* (Roxb. ex Flem.) Wall. ex DC. (i) nombre de un árbol Karanja), *Tinospora cordifolia* Miers (Guduci), *Saussurea lappa* Clarke (Iepa), *Zingiber officinale* Roscoe (Ardraka/Sunthi), *Clerodendrum divaricatum* Jack Syn.: *C. serratum* Spreng. (Bharangi), *Solanum surattense* Burm. F. Syn.: *S. xanthocarpum* Schrad. & Wendl. (Kantakari, Laksamana (droga de sustituto) (Sveta)), *Acorus calamus* Linn. (Una especie de pez), *Azadirachta indica* A. Juss. (limero), *Curcuma domestica* Valetton Syn. *C. longa* Linn (Haridra, Timira (Sustituto)), *Berberis aristata* DC. (el árbol Devadaru color verde), *Trichosanthes dioica* Roxb. (el pepino), *Picrorhiza kurroa* Royle ex Benth. (Katuki), *Marsdenia tenacissima* Wight. & Arn. (Murva), *Embelia ribes* Burm. f. (Una sustancia vegetal, usada extensamente como vermifugo), *Pterocarpus marsupium* Roxb. (Bijaka), *Plumbago zeylanica* Linn. (Citraka), *Asparagus racemosus* Willd. (Satavari), *Gentiana kurroo* Royle (Variedad de Trayamana), *Piper longum* Linn. (Pippali), *Holarrhena antidysenterica* (Roxb. ex Flem.) Wall. ex DC. (i) nombre de un árbol Karanja), *Justicia adhatoda* Linn. Syn.: *Adhatoda vasica* Nees (bambú), *Eclipta prostrata* (Linn.) Linn. Syn.: *E. alba* (Linn.) Hassk. (nombre de un árbol gigante), *Cedrus deodara* (D.Don) G.Don (una especie del pino), *Cissampelos pareira* Linn. (hoja), *Acacia catechu* (Linn. f.) Willd. (Arbol Khadira), *Pterocarpus santalinus* Linn. f. (Rakta candana), *Operculina turpethum* (Linn.) S. Manso (Trivrta), *Crateva nurvala* Buch. -Ham. (el océanoo agua), *Swertia chirayita* (Roxb. ex Flem.) Karst. (Kiratatikta), *Psoralea corylifolia* Linn. (Bakuci), *Cassia fistula* Linn. (matanza de las abejas amarillas), *Streblus asper* Lour. (Sakhotaka), *Melia azedarach* Linn. (Mahanimba), *Pongamia pinnata* (Linn.) Pierre (Karanja, Naktamala, Udkirya), *Aconitum heterophyllum* Wall. ex Royle (planta venenosa pero altamente medicinal), *Coleus*

# STATUS

<b>Discipline</b>	<b>Current Status</b>
<b>Ayurvedic formulations</b>	<b>91,410</b>
<b>Unani formulations</b>	<b>1,29,170</b>
<b>Siddha formulations</b>	<b>15,290</b>
<b>Yoga</b>	<b>1,305</b>

**TKDL ready to safeguard 0.226 million medicinal formulations like Neem and Turmeric in Ayurveda ,Unani and Siddha which are present in 34 million A4 size pages, at International Level**

# *Interest Shown by several Countries for getting develop their National TKDL*

## ❖ **South Africa**

- High level delegation from Department of Science & Technology visited during Dec., 2003

## ❖ **African Regional Industrial Property Organisation**

- Delegation visited during May – June 2004 for replicating TKDL for ARIPO Member States.

## ❖ **Govt. of Thailand**

- Delegation visited during July 2009 for Joint Workshop between Public Health Department, Thailand & TKDL Unit, CSIR, India.

## ❖ **Govt. of Mongolia**

## ❖ **Govt. of Cambodia**

## ❖ **Govt. of Malaysia**

## ❖ **Govt. of Indonesia**



**WIPO has plans to Internationalise TKDL to utilise  
Indian TKDL as a template for other willing  
Countries rich in TK and GR**

**World Intellectual Property  
Organisation, Geneva  
April-2010**

**WIPO- CSIR organised an  
International Conference on  
*“Utilization of the Traditional Knowledge  
Digital Library (TKDL) as a Model for the  
Protection of Traditional Knowledge”*  
in New Delhi, India, March 22 to 24,  
2011**

*Participants from 33 developing Countries participated  
in the Conference*

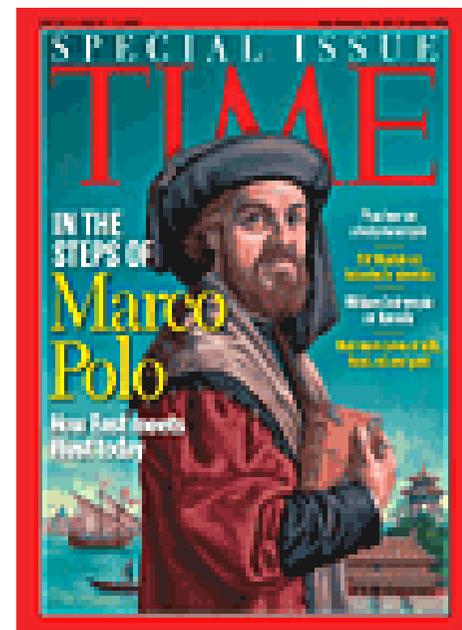
The information, along with a photographic scan of the relative verse, is then uploaded to an online database and translated into English, French, German, Spanish, Japanese and Hindi. So far, some 140,000 treatments have been entered into the Traditional Knowledge Digital Library (TKDL), a \$2 million project launched five years ago to provide a direct link to what is regarded in the patent world as prior knowledge. The first of its kind, the TKDL is serving as a

## Natural Healing

Will India succeed in bringing its ancient Ayurvedic plant medicines into the modern world?

By Aryn Baker | Kottakkal

### THIS WEEK'S COVER



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The Washington Times  
India makes moves to reclaim heritage from piracy'

By David  
LONDON  
September



BBC NEWS

BBC NEWS Wednesday, 7 December 2005, 13:22 GMT India hits back in 'bio-piracy' battle By Soutik Biswas, BBC News, Delhi

[http://news.bbc.co.uk/2/hi/south\\_asia/4506382.stm](http://news.bbc.co.uk/2/hi/south_asia/4506382.stm)In a quiet government office in the Indian capital, Delhi, some 100 doctors are hunched over computers poring over ancient medical texts and keying in information.....People outside India are not aware of our immense traditional knowledge wealth VK Gupta, project director .....The mammoth Indian encyclopaedia may finally give alternative medicine the shot in the arm it sorely needs



<http://yaleglobal.yale.edu/display.asp>  
Eric Bellman The Wall Street Journal, 19 December  
government is taking a small step toward that goal by building a catalog more than 100,000 traditional herbal medicines and thousands of plants and yoga positions. The database, in New Delhi at India's National Institute of Science Communication and Information Resources, also includes more than 30 million pages of ancient Indian texts translated into English, French, German, Spanish and Japanese. The institute plans to add traditional Indian food, architecture and farming methods -- all in an effort to establish the provenance of India's natural and cultural property. "At least 150 experts have been working six days a week for the last three years on this," says V.K. Gupta, director of the institute. "Now we have a mechanism through which we can prevent

teleg

India adopts yoga poses  
By David  
(Filed:

"Yoga piracy" is says Vinod Gupta traditional know

"We know of at UK, Germany and them as their own

In an effort to postures drawn Patanjali, the library whose worldwide,

"No one should Gupta. "The in But, until now, cannot understand

The move is traditional In thousands of So far, 10 million Arabic and Persian library.

## Break with tradition

Traditional medicine has spent decades in the wings of pharmacology. Now India is pushing it to centre stage, as K. S. Jayaraman reports.

For years, the drug industry has been curious about traditional medicine — especially the venerable systems of India and China. Now, the Indian government has taken a step that could open the way for greater commercial exploitation of its traditions around the world.

In the past few years, India has developed a huge electronic database known as the Traditional Knowledge Digital Library. Last month, the Indian cabinet agreed to give patent officers around the world access to the library, to make sure that patents are not granted on existing Indian remedies. And the government may soon go one stage further, inviting major international drug companies to collaborate with national researchers on deriving drug candidates from the library's contents. It hopes to boost the country's public health care in the process.

But the move to share the library's content has sharply divided opinion in India, where the country's cultural and intellectual heritage.

Advocates of sharing say that the database, which has been under construction at the National Institute of Science Communication and Information Resources in New Delhi since 2000, could have a major impact on the process of drug discovery. The database has the potential to "slash the cost of drug development", says Vinod Gupta, a computer scientist and director of the institute. "We have a treasure chest of plant-based medicines, created by experimenting directly on man for hundreds of years."

Others are not so sure. They worry that India risks losing out by sharing its knowledge with outsiders. Purveyors of traditional medicine fear that international companies will

grab control of the information. "It is hard to believe that the multinational drug companies are interested in collaborating on traditional-medicine research in order to promote it," says P. Ram Manohar, research director of Arya Vidya Pharmacy, which produces drugs based on traditional knowledge in Coimbatore. "Their interest would be confined to using it to develop new drugs — over which they could exercise

control." And that would be of little help to India's healthcare agenda.

Some also doubt that the information will really yield the blockbuster drugs that architects of the database are hoping for. Two major drug companies that are active in India — Pfizer and Merck — declined to respond when asked whether the database was of interest to them.

### Medicine bags

Traditional Indian medicine consists of three main systems, known as Ayurveda, Siddha and Unani. Between them they use about 1,500 medicinal plants, a third of which are listed in the Digital Library already.

Some 145,000 formulations are due to be added to the library's content. The creation of the digital library is a gradual process. For decades, the country has had foreign protections, which will generally



India's database of traditional medicine has 145,000 formulations

to document digital formulations agreed to patent search it on any other But a quote was unavail



### IN THIS ISSUE NATURE INSIGHT: LAB ON A CHIP

27 July 2006 www.nature.com/nature £10

THE INTERNATIONAL WEEKLY JOURNAL OF SCIENCE

# nature

## REPLICATION OF EXPERIMENTS

A Nature issue on trial

## THE WEATHER FOR TITAN

Cloudy with methane drizzle and flash floods

## CURRENTS THAT SOOTHE

Wound healing induced by electric signals

# SPINTRONICS AT THE ATOMIC LEVEL

A positive spin on GaAs semiconductors

NATURE JOBS  
Clinical trials



### IN BRIEF

**VACCINE VENTURE** Swiss drugmaker Novartis has announced plans to build a \$600-million, state-of-the-art production plant for flu vaccine in Holly Springs, North Carolina. The plant — more than a third of which will be paid for by the US government — will be the first in the United States to derive vaccines from cell culture rather than the chicken eggs commonly used at present. The company says its facility is designed to produce 50 million doses of seasonal flu vaccine annually, and up to 150 million doses of avian-flu vaccine if required.

**CHINA CRISIS** Amnesty International, the human-rights watchdog, has accused Google, Yahoo and Microsoft of contributing to 'internet repression' in China by cooperating with the country's authorities. "The apparatus of internet repression is considered to be more advanced in China than in any other country and companies are particularly willing to cooperate with the Chinese government," Amnesty says in a report issued on 20 July. Yahoo has faced a consumer backlash in the West, after giving the police the identities of two-dissenting Chinese writers, who are now in prison.

**GREEN FOCUS** The Ford motor company has said that it will spend £1 billion (US\$1.9 billion) over six years in Britain on research and development into cleaner engines. The company says that 9,500 engineers will be deployed in the effort. It also plans to create a version of its most popular car — the Ford Focus — that delivers 70 miles per gallon. The announcement has been welcomed by the government, but unions note that it involves the redeployment of existing resources, not fresh investment.

### MARKET WATCH

#### BIOTECHNOLOGY STOCKS



This week, Wood Mackenzie, an Edinburgh-based research and consulting firm, reviews recent trends in biotechnology stocks.

Biotech continues to retreat from its high point in February, although the rate of decline has slowed. The Nasdaq biotechnology index is down 4% over the past eight weeks, and 12% since the start of the year. Broader indices are also falling in a volatile market.

Amgen of Thousand Oaks, California, has fared particularly badly, falling 5% over the past eight weeks and 20% so far in 2006. Investors believe there is a growing threat to Amgen's erythropoietin drugs for treating anaemia, which generated \$5.8 billion in sales in 2005 — nearly half of total turnover. Rival Roche of Basel, Switzerland, has a second-generation erythropoietin drug, called CERA, which is likely to reach the market in 2007. And the European Union has cleared

a path for the approval of generic versions of some biological drugs, including erythropoietin.

Amgen is given more 'weight' in the index than any other company, so its losses are an important factor in the overall drop. But many other listed firms have suffered.

Shares in Anadys Pharmaceuticals of San Diego, California, lost two-thirds of their value after the company suspended a phase I trial of its hepatitis-C treatment and its chief executive announced his forthcoming departure. Stock prices in another San Diego company, Neuropeptide Biosciences, dropped by three-quarters after problems with its insomnia drug candidate, indipidin.

In a period of general market anxiety, biotech shares are particularly vulnerable to bad news. Now, strong second-quarter results will be needed to bolster confidence in the sector.

# *Access to TKDL*

**(CCEA has approved access to TKDL for International Patent Offices)**

## ■ **Users**

- Shall not disclose the content to third party
- Shall utilize for patent search & examiners, can give printouts to patent applicants for citation purposes
- No use other than search & examination
- Will provide non-confidential information received from applicant on usage to provider
- Will give feedback for enhancing the features of TKDL

## ■ **Provider**

- Shall provide uninterrupted access
- Training to users (as and when needed)
- Render assistance in search & examination (as & when needed)
- Free to utilize for itself & can grant access to others

# ***TKDL Access Agreement to International Patent Offices***

**(CCEA has approved access to TKDL for International Patent Offices)**

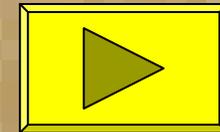
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|--|-------------------------|
| ■ European Patent Office   | <b>February 2009</b>    |
| ■ Indian Patent Office   | <b>July 2009</b>        |
| ■ German patent Office   | <b>October 2009</b>     |
| ■ United States Patent and Trademark Office  | <b>November 2009</b>    |
| <i>Access Agreement with USPTO was signed on the sideline of the state visit of Hon'ble Prime Minister to United states.</i> |                         |
| ■ United Kingdom Patent and Trademark Office   | <b>February 2010</b>    |
| ■ Canadian Intellectual Property Office  | <b>September 2010</b>   |
| ■ IP Australia   | <b>January 2011</b>     |
| ■ Japan Patent Office  | <b>April 2011</b>       |
| ■ New Zealand IP Office, Korean IP Office  | <b>Being Negotiated</b> |

# *International Patent System and Prior-art and TKDL as prior art tool*

- Any material printed in any language any where in the world.
- Need search and retrieval capabilities in respect of available TK for preventing misappropriation.
- Abilities to identify attempts on misappropriation.
  - **Global Bio-piracy Watch System**
- Understanding of National Patent laws for submissions as Third Party Observations / Pre-grant Opposition.

# ***TKDL - Prior Art - Access Agreements***

- ◆ **TKDL or similar Digital Database a Pre-requisite to identify evidence of prior art**
- ◆ **TPO submission not dependent on Access Agreement**

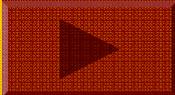


# ***Global Bio-Piracy Watch System***

- ◆ **Study Characteristics of each website**
- ◆ **Identify the Search Criteria**
- ◆ **Develop an Agent utility to satisfy the Search Criteria on required IPC Symbols.**
- ◆ **Establish relevance of identified Applications in TKDL database**



# *Identify IPC Symbols of relevance to TKDL*

- **A61K 36/00 (207 Sub Groups) on Medicinal Plants.** 
- **Others** 
- **Number of Applications identified** 
- **A61K 36/00 - 14234** 
- **Others - 157773**

# TKDL Outcomes

<b>Office</b>	<b>No. of Cases of Misappropriation Identified in last one year and action taken</b>
<b>EPO</b>	<b>219</b>
<b>USPTO</b>	<b>196</b>
<b>IP Australia</b>	<b>43</b>
<b>CIPO</b>	<b>109</b>
<b>Total</b>	<b>567</b>

## *Details of Misappropriation by MNCs identified in last One Year*

<b>Country of Origin of MNC</b>	<b>Number of Applications</b>
<b>US</b>	<b>148</b>
<b>UK</b>	<b>51</b>
<b>Germany</b>	<b>46</b>
<b>Italy</b>	<b>42</b>
<b>Japan</b>	<b>38</b>
<b>Australia</b>	<b>33</b>
<b>Canada</b>	<b>26</b>
<b>Switzerland</b>	<b>24</b>
<b>Spain</b>	<b>15</b>
<b>France</b>	<b>14</b>
<b>Netherland</b>	<b>10</b>
<b>Others *</b>	<b>120</b>

*\*Others MNCs Countries are Denmark, New Zealand, Luxemburg, Norway, Russia, Sweden, Hungary, Austria, Singapore etc.*

# TKDL Outcomes

## (Cancellation/ Withdrawn/ Amendment of Claims)

**No of Applications Cancelled:- 2**

**Applicant Countries**

Spain, Italy

**Applications Withdrawn Based on TKDL Evidences: 42**

**Applicant Countries**

Netherlands, Korea, Denmark (4), China, United States (8), Italy (3), Norway, Kenya, Germany(5), Great Britain (4), India, Israel, Switzerland, Brazil, Japan (2), Cyprus, Australia, South Korea (2), Canada, Argentina, France

**No. of Cases where Claims were Amendment:- 3**

**Applicant Countries**

China, Taiwan, United States

**Total**

**47**

# *Tangible Results of TKDL Access Agreement with EPO*

- Normal route of opposition of an international patent - (10-15 years)



– Neem (10 years)



– Enola Beans (10 years)



– Monsanto soybean (13 years)

- TKDL route



– Anti-Vitiligo Cream (3 week)



– Chinese Traditional Medicine composition for treatment of avian influenza, method for preparation, and application thereof



– Method for altering the Metabolism Characteristic of Food Products (11 Weeks)



– Composition for Heart Disease and Health Products (9 Weeks)



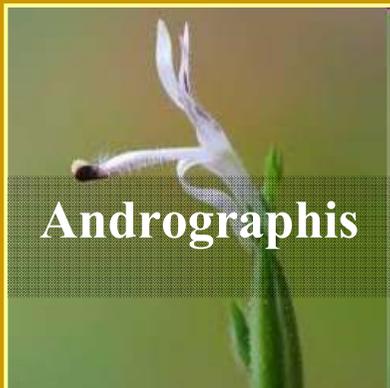
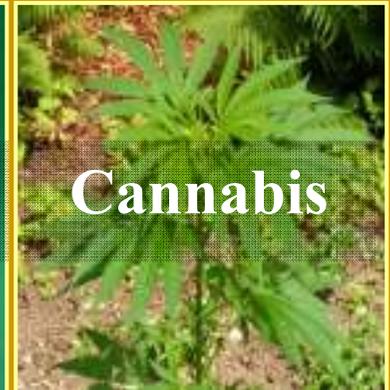
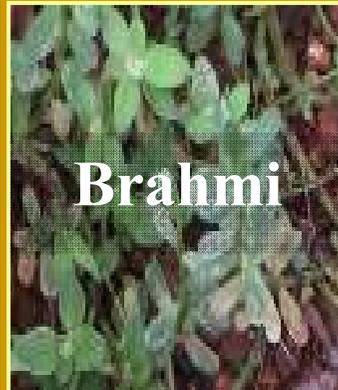
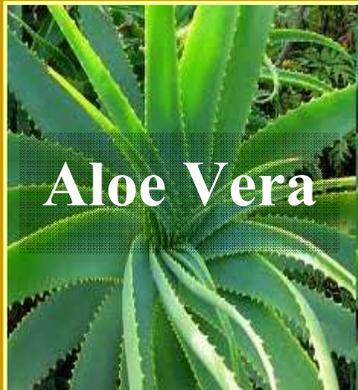
– Method of treatment or management of stress (40 Weeks)



– Cosmetic herbal compositions (36 Weeks)

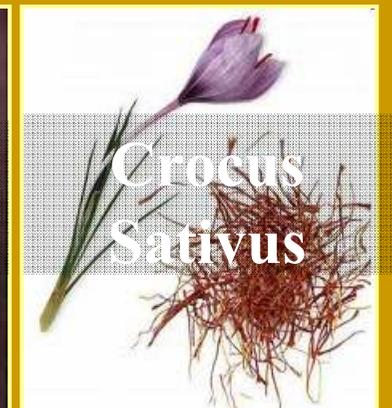
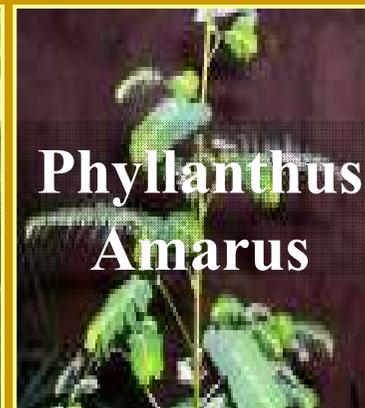
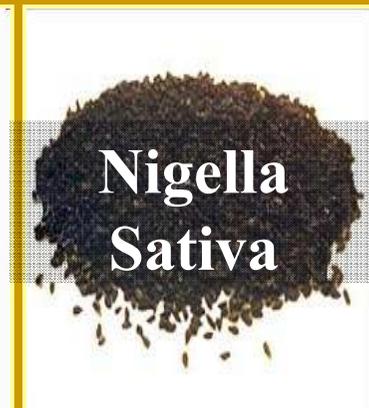
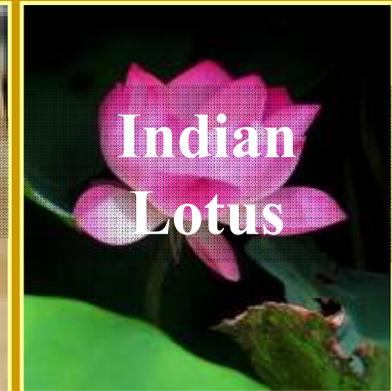
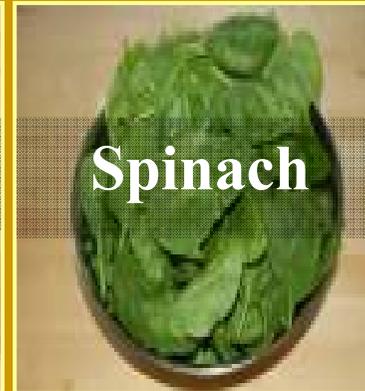
# *TKDL Out-Comes Against Bio-Piracy*

Successfully safeguarded bio-piracy attempts to patent medicinal plants (usages)



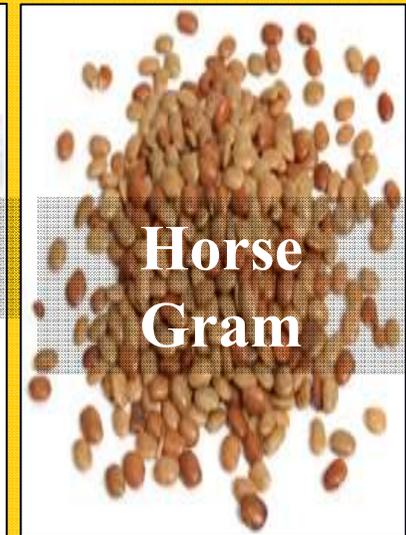
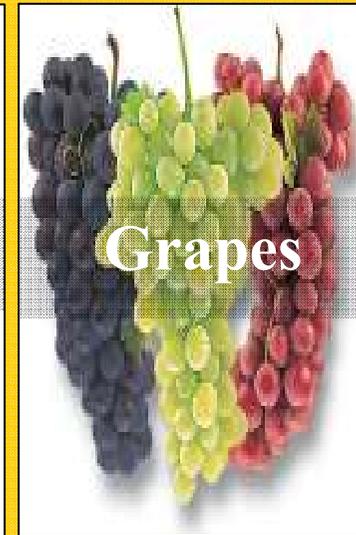
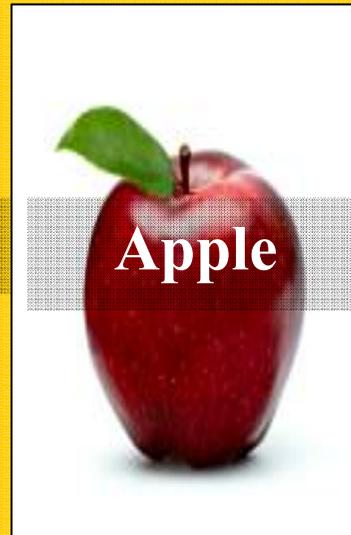
# *TKDL Out-Comes Against Bio-Piracy*

Successfully safeguarded Bio-piracy attempts to patent Medicinal Plants (usages)



# *TKDL Out-Comes Against Bio-Piracy*

Successfully safeguarded Bio-piracy attempts to patent Medicinal Plants (usages)



# TKDL Success against Bio-Piracy attempts of MNCs

## USA

1	Natreon Inc	
2	Jan Marini Skin Research Inc	
3	Phytrix JV, LLC	

## Italy

1	Data Medica Padova S.p.A	
2	Indena S.p.A	
3	Bios Line S.p.a	

## Korea

1	Purimed Co., Ltd	
2	Seoul National University Industry foundation	

## Great Britain

1	GW Pharma Limited	
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## Brazil

1	Acha Laboratories	
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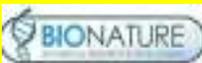
## Canada

1	Herbal Infusion Corporation	
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## Netherlands

1	Unilever N.V	
---	--------------	---

## Cyprus

1	Bionature	
---	-----------	---

## Israel

1	Naveh Pharma	
---	--------------	---

## Australia

1	Natbio Pty Ltd.	
---	-----------------	---

# TKDL Success against Bio-Piracy attempts of MNCs

## Japan

1	Mercian Corporation	
---	---------------------	---

## Germany

1	Cognis IP Management GmbH	
2	Evonik Goldschmidt GmbH	

## China

1	Livzon Pharmaceutical	
---	-----------------------	---

## USA

1	Berkson, Lindsey,	
---	-------------------	---

## USA

1	Juice Beauty	
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# TPO/Pre Grant Opposition VS Post Grant Opposition

Prerequisite of TPO: Documentation similar to TKDL

S.N.	Process	Post Grant	TPO / Pre Grant
1.	Nature	Party to Re-examination Process	Can not participate in Re-examination
2.	Cost	Highly Expensive	Zero Cost
3.	Time Period	4-13 Year	1-20 Weeks
4.	Appeal	Applicant can appeal	Can not appeal since no rights were granted

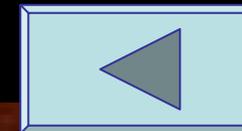
# Applicability & Limitations of TKDL Model

- ❖ **Applicable to Codified and Oral Knowledge.**
- ❖ **TKDL is a Defensive Technical Tool only.**
- ❖ **Access Agreement (s) are useful but not essential.**
- ❖ **A useful resource for new Research and new IP & Capacity Building.**
- ❖ **Not a substitute for an International legally binding Instrument for Protection of Traditional Knowledge and disclosure requirements submitted by Developing Countries at TRIPs Council. These instruments are essential for protection of Traditional Knowledge**



Thank You

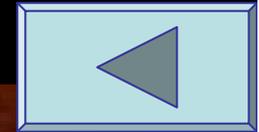
# Normal oppositions i.e. without TKDL and TKDL Access Agreement



## EPO PATENT NO: EP436257- (Neem)

<b>Title</b>	Method for controlling fungi on plants by the aid of hydrophobic extracted neem oil
<b>Applicant &amp; Country</b>	Thermo Trilogy Corporation, 9145 Guilford Road Columbia, Maryland 21046-1883, USA
<b>Date of Filing</b>	20 December 1990
<b>Date of Grant</b>	04 August 1994
<b>Date of Opposition</b>	14 September 1994
<b>Opposed by</b>	National and International NGOs
<b>Final Rejection</b>	8 March 2005
<b>Period between Grant &amp; Rejection</b>	<b>10 Years</b>

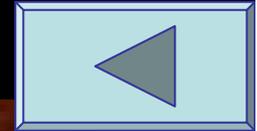
# Normal oppositions i.e. without TKDL and TKDL Access Agreement



## US PATENT NO: 5894079- (Enola Beans)

<b>Title</b>	Field bean cultivar named enola
<b>Applicant &amp; Country</b>	LARRY M. PROCTOR, DELTA, CO. USA
<b>Date of Filing</b>	15 November 1996
<b>Date of Grant</b>	13 April 1999
<b>Date of Opposition</b>	20 December 2000
<b>Opposed by</b>	International Center for Tropical Agriculture
<b>Rejection at USPTO</b>	2008
<b>Rejection at US Federal Court</b>	10 July 2009
<b>Period between Grant &amp; Rejection</b>	<b>10 Years</b>

# Normal oppositions i.e. without TKDL and TKDL Access Agreement



**EPO PATENT NO: EP301749 – (Monsanto soybean)**

<b>Title</b>	Particle-medicated transformation of soybean plants and lines
<b>Applicant &amp; Country</b>	Monsanto Company, 800 North Lindbergh Boulevard, St. Louis, Missouri 63167, USA
<b>Date of Filing</b>	20 July 1988
<b>Date of Grant</b>	02 March 1994
<b>Date of Opposition</b>	6 October 1994
<b>Opposed by</b>	Rural Advancement Foundation International (Canada)
<b>Final Rejection</b>	6 July 2007
<b>Period between Grant &amp; Rejection</b>	<b>13 Years</b>

# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1520585 (Anti Cancer - Pistacia Vera )

Title	Cancer treatment using natural plant products or essential oils or components from some pistacia species
Applicant & Country	DATA MEDICA PADOVA S P A, Italy
Date of Filing	24 September 2004
Date of intention to grant	19 February 2009
Date of Third Party observation	08 July 2009
Notice setting aside Intention to grant	14 July 2009
Period between Third Party observation and setting aside Intention to grant	<b>1 Week</b>

# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1747786 (Anti-Vitiligo Cream )

Title	Natural Product Cream with Anti-Vitiligo Therapeutic Properties
Applicant & Country	PERDIX EUROGROUP S L, Spain
Date of Filing	24 July 2006
Date of Intention to grant	March 2009
Date of Third Party observation	01 July 2009
Notice setting aside Intention to grant	27 July 2009
Period between Third Party observation and setting aside Intention to grant	<b>3 Weeks</b>



# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1849473

(Composition for treatment of avian influenza)

Title	Chinese traditional medicine composition for treatment of avian influenza, method for preparation, and application thereof
Applicant & Country	Livzon Pharmaceutical Group Inc., CN, China
Date of Filing	19 Jan 2007
Date of Intention to grant	25 Feb 2010
Date of Third Party observation	20 May 2010
Notice setting aside Intention to grant	10 June 2010
Period between Third Party observation and setting aside Intention to grant	<b>3 Weeks</b>



# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1607006 (Cardio Vascular Tonic)

Title	Cardio Vascular Tonic
Applicant & Country	UNILEVER NV, Netherlands
Date of Filing	18 June 2004
Date of Third Party observation	09 July 2009
Application deemed to be withdrawn	04 August 2009
Period between Third Party observation and withdrawal of application by applicant	<b>3 Weeks</b>

# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1781309

(Composition for Heart Disease and Health Products)

Title	Nelumbinis semen extract for preventing and treating ischemic heart disease and pharmaceutical composition and health food containing the same
Applicant & Country	Purimed Co., Ltd. Seoul, Korea
Date of Filing	09-June-2005
Date of Third Party observation	09-July-2009
Application deemed to be withdrawn	18-Sept-2009
Period between Third Party observation and setting aside Intention to grant	<b>9 Weeks</b>



# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP2044850

(Method for altering the Metabolism Characteristic of Food Products )

Title	Method for altering the Metabolism Characteristic of Food Products
Applicant & Country	CLARA S APS, DENMARK
Date of Filing	19-Sept-2007
Date of Third Party observation	12-August-2009
Applicant withdraw his application	30-Oct-2009
Period between Third Party observation and setting aside Intention to grant	<b>11 Weeks</b>



# India foils Spanish co's patent bid for Vitiligo cure

Kounteya Sinha | TNN

**New Delhi:** India has for the first time ever managed to foil a bio-piracy bid in a record three weeks time.

Thanks to the recently created **Traditional Knowledge Digital Library (TKDL)**, which has till now completed documenting over two lakh medical formulations of Ayurveda, Siddha and Unani to save them from piracy, European Patent Office (EPO) has cancelled its earlier "intent to grant patent" order to a Spanish company on use of melon extract to cure vitiligo (leucoderma) — a disease that causes skin depigmentation to almost 65 million people globally.

Interestingly under India's ancient Unani system of med-

## Understanding Disorder

### What is Vitiligo?

▶ Vitiligo is a pigmentation disorder in which melanocytes in the skin are destroyed. As a result, white patches appear on the skin in different parts of the body



### Who is affected by vitiligo?

About **65 mn** people have vitiligo. Half the people who have vitiligo develop it before age 20

▶ **Indian hakeems** under the Unani system have been using an extract from melon for hundred years to cure



### What causes it?

▶ There is evidence that people with vitiligo inherit a group of three genes that make them susceptible to depigmentation. Some say vitiligo is a disease in which a person's immune system reacts against the body's own organs or tissues. So proteins called cytokines that are produced within the body alter their pigment producing cells and cause these cells to die

icine, *hakeems* have for hundreds of years been using melon extract to cure this disease. Michael Jackson was world's most famous vitiligo patient. After studying India's documents available in **TKDL** which confirmed "evidence of prior art", EPO has decided against granting patent for the anti-vitiligo cream to the Spanish company **Perdix group SL**.

Earlier patent related challenges made by India lasted years. Among the famous were patent application over neem's anti-fungal properties which took India 10 years to revoke, the patent application on the wound healing properties of turmeric which took three years, and that of Basmati rice against an US-based company which took well over a year.

A health ministry official said: "This is victory for us. **TKDL**, which has documented and translated knowledge of traditional Indian medicines from Hindi, Sanskrit, Arabic, Persian, Urdu and Tamil to five international languages — English, Japanese, French, German and Spanish — will help in fighting foreign companies and countries from claiming patents over information and practices already available in India." In order to confirm EPO's order, **TOI** scanned through its website and found that application no. **EP1747786** titled, "Natural product in cream with anti-vitiligo (leucoderma) therapeutic properties", was filed by **Perdix Euro group SL**, Spain, in July 2006.

**September 2009**

# हिन्दुस्तान

शुक्रवार, 2 जुलाई 2010 नगर, आषाढ, कृष्ण एका, पौषी, विक्रम संवत् 2067,

नई दिल्ली, वर्ष 75, अंक 156, 18 पृष्ठ + 4

## पराया होते-होते बचा कमल

यूरोपीय पेटेंट ऑफिस को बताया कि भारत में 5वीं सदी से दिल के आयुर्वेदिक उपचार में इस्तेमाल होती है कमल से बनी दवाइयां

### मदन जैड़ा

नई दिल्ली

आयुर्वेद में वर्णित चिकित्सा ज्ञान को भले ही देश में तरजीह नहीं मिल पाती हो लेकिन बहुराष्ट्रीय कंपनियां इनके आधार पर एलोपैथिक दवाएं बना रही हैं। कोरिया की बहुराष्ट्रीय फार्मा कंपनी मैसर्स पुरीमेड लिमिटेड ने भारतीय फूल कमल से हृदयरोग की दवा बना ली तथा यूरोप में पेटेंट दखिल किया। लेकिन भारत ने इस प्रयास को विफल कर दिया।

भारत ने यूरोपियन पेटेंट ऑफिस को प्रमाण दिए कि देश में आयुर्वेदिक चिकित्सा पद्धति में पांचवीं शताब्दी से ही कमल से बनी दवाओं का इस्तेमाल दिल के उपचार में होता आया है।

ट्रिडिशनल नालेज लाइब्रेरी (टीकेडीएल) के डायरेक्टर डॉ. के. गुप्ता के अनुसार मैसर्स पुरीमेड लि. ने कमल के औषधीय तत्वों से इस्केमिक हार्ट अटैक की दवा तैयार की और पेटेंट के

लिए यूरोपीय पेटेंट ऑफिस में आवेदन किया। टीकेडीएल और यूरोपीय पेटेंट ऑफिस के बीच पहले ही समझौता हो चुका है। जैसे ही हमें इसकी खबर लगी हमने पूरे तथ्य यूरोपीय पेटेंट ऑफिस के समक्ष रखे। उन्हें बताया कि आयुर्वेद चिकित्सा शास्त्र की पुस्तकों रसयोग सागर, भेला समाहिता, सुश्रुत समाहिता एवं वंगसेना में कमल के औषधीय तत्वों से दिल की बीमारियों का उपचार का ब्यौरा है। भारत की तरफ से सवाल उठाया गया कि उपचार की जो विधि भारत में पांचवीं सदी से ही प्रचलित है, उस पर आज कोई कंपनी कैसे पेटेंट ले सकती है। डा. गुप्ता के अनुसार यूरोपीय पेटेंट ऑफिस ने उन्हें

### टीकेडीएल

टीकेडीएल-आयुर्वेद, यूनानी तथा सिद्ध पंथियों के 2.20 लाख परंपरागत चिकित्सा फार्मूलों को इसमें डिजिटल और पेटेंट फार्मेट में लिपिबद्ध किया गया है। फार्मूले अंग्रेजी, अलावा फ्रेंच, जर्मन, स्पेनिश तथा जापानी भाषाओं में हैं। यूरोप और यूएस के पेटेंट कार्यालयों से टीकेडीएल का एग्रीमेंट हो चुका है तथा अब अन्य देशों के पेटेंट कार्यालयों से भी ऐसे ही करार किए जा रहे हैं।



सूचित किया है कि भारत द्वारा पेश तथ्यों के आधार पर पुरीमेड पेटेंट आवेदन ईपी-1781309 खारिज कर दिया है। इस बीच अपुष्ट सूत्रों से खबर मिली थी कि उपरोक्त कंपनी ने अरबों रुपये निवेश कर उक्त दवा को बनाना भी शुरू कर दिया

### टीकेडीएल का फायदा

कुछ साल पूर्व यूरोप में नीम पर और अमेरिका में हल्दी पर पेटेंट कर लिए गए थे। तब भारत को इन्हें खारिज कराने में मुकदमा लड़ना पड़ा था जिसमें दस साल लगे और करीब दस करोड़ रुपये खर्च हुए। लेकिन टीकेडीएल के बनने के बाद अब जो पेटेंट खारिज हो रहे हैं, उनमें न तो मुकदमा लड़ना पड़ता है न ही समय की बर्बादी। सिर्फ चिट्ठी-पत्री से इन्हें खारिज किया जा रहा है।

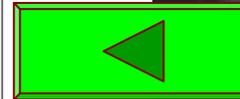
### उपेक्षा का परिणाम

- यूरोप में कमल से बनी दवा पर पेटेंट हथियाने की कोशिश विफल, भारत ने खारिज कराया दावा
- कोरियाई बहुराष्ट्रीय फार्मा कंपनी ने बना ली थी कमल के औषधीय गुणों से इस्केमिक हार्ट अटैक की दवा

था। दरअसल, पेटेंट फाइल करते ही दवा पर संबंधित कंपनी का अधिकार मान लिया जाता है। लेकिन पेटेंट खारिज हो जाने के अब कंपनी के सारे दावे खारिज हो गए हैं। इससे पहले टीकेडीएल से खरबूजे के छिलके, अश्वगंधा, अर्जुन, चाय की पत्तियों, ब्राह्मी, हल्दी, बंगाली चने, नीम, अलोवेरा, पुदीना तथा कलामेघा के औषधीय तत्वों से बनी दवाओं के पेटेंट यूरोपीय और अमेरिकी पेटेंट आफिसों से खारिज कराए हैं।

टीकेडीएल के अफसरों का मानना है कि विदेशी पेटेंट कार्यालयों द्वारा भारतीय औषधीयों पर करीब 2000 पेटेंट हर साल दिए जा रहे हैं।

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WIMBLEDON: SERENA TO TAKE ON ZVONAREVA FOR SINGLES CROWN 26

NSA MENON TO VISIT CHINA BEFORE ZARDARI IN BID TO STALL N-DEAL WITH PAK 14

POLICE TO REOPEN PROBE INTO 2006 SEXUAL ABUSE CASE AGAINST AL GORE 18

## Danish bio-piracy bid on ginger foiled

### Alert India Says We Knew All Along It Could Burn Fat

Kounteya Sinha | TNN

New Delhi: India foiled a major bio piracy bid by a Danish company to patent ginger, jeera (cumin), onion and turmeric's fat burning properties, just as it stopped China from patenting pudina's health benefits last month.

Claras ApS, a Danish company, on September 19, 2007 filed a patent application at the European Patent Office, saying its invention of turmeric, cumin, ginger and onion as slimming agents was novel. But the Council of Scientific and Industrial Research (CSIR), with the help of India's Traditional Knowledge Digital Library (TKDL), dug out formulations from ancient Ayurveda texts like *Astanga Samgraha*, *Yogaratanakarah*, *Yogatarangini* and *Gadantgrahah*, dating back to the 5th century, which contained formulations involving their use for ages in India, as fat burners.

TKDL director Dr V K Gupta submitted a letter to EPO on August 25, 2009 to inform the examiners that all the four have long been known in Indian systems of traditional medicine for their use as slimming agents or fat destroyers.

CSIR's letter to EPO said, "The patent application number EP2044850, titled method for altering the metabolism characteristic of food products, may kindly be referred to wherein the usefulness of a herbal composition of *Zingiber officinale* (ginger), *Allium cepa* (onion), *Cuminum cyminum* (cumin seed) and *Curcuma longa* (turmeric) on being added to a food product as a slimming agent by altering the digestion characteristic/metabolism characteristic of the food product has been claimed to be novel."

### NOT A SLIM CHANCE



Claras ApS, a Danish company, had filed a patent application for its 'invention' of turmeric, cumin, ginger and onion as slimming agents. But the Council of Scientific and Industrial Research dug out formulations from ancient texts to prove their use for ages in India, as fat burners

The letter added, "In TKDL, there are several references where all four have been found to be used for improving digestion process and act as slimming agent. Hence, there does not seem to be any novelty or inventive step involved in the claims made in the above referred patent application." The letter was accompanied with evidence from age-old Indian medicinal texts. "Following India's intervention, the Danish company was not left with any option except to withdraw its patent and claims. Accordingly, the company decided to withdraw its three-year-old application," a health ministry official said.

TKDL is a collaborative project between CSIR and the health ministry's department of Ayush.

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# Section A – Ayurveda

## Class

- 01 – Pharmaceutical Preparations (*Kalpana*)
- 02 – Personal Hygiene Preparations
- 03 – Dietary (*food/food stuff or Beverages*)
- 04 – Biocides, Fumigatives (*Dhupana, krmighna*)



## Section A Class 01 – Pharmaceutical Preparations (*Kalpana*)

### ● Sub-Class

- 01A Based on *Audbhida* (Plants)
- 01B Based on *Jangama* (Animals)
- 01C Based on *Parthiva* (Minerals)
- 01D Characterised by *Roga* (Diseases)
- 01E Characterised by *Karma* (Action)
- 01F Mode of Administration
- 01G Miscellaneous

### ● Sub-Class: A01A – Pharmaceutical Preparations (*Kalpana*) Based on *Audbhida* (Plants)

- Group A01A 1/00 Whole medicinal plant
- 2/00 Parts of medicinal plant used
- 3/00 Characterised by Physical form

## *Citation from TKDL references through Third Party Observations*

### *United States of America – Total No. of Application 4*

1. Nutritional Supplement for the Prevention of Cardiovascular Disease, Alzheimer's disease, Diabetes, And Regulation and Reduction of Blood Sugar and Insulin Resistance
2. Physiologically active composition;
3. Compositions of Plant Carbohydrates as Dietary Supplements ;
4. Derivatives of sandalwood oil and santalols for treating sores and herpes

### *Egypt– Total No. of Application 1*

1. Lipid Fraction of Nigella Sativa L. Seeds

## *Citation from TKDL references through Third Party Observations*

### *Germany– Total No. of Application 2*

1. Blackberry Extract
2. Oil of coriander, oil of coriander-containing compositions having antimicrobial and antiphlogistic effects and their use

### *South Korea– Total No. of Application 2*

1. Extract Of Herbal and Composition Containing The Same
2. Hair Growth Stimulants and the Manufacturing Method Thereof

### *United Kingdom– Total No. of Application 1*

1. Herbal Extracts and Flavor Systems For Oral Products and Methods of Making The Same

## *Citation from TKDL references through Third Party Observations*

### *India– Total No. of Application 2*

1. Composition for enhancing immunity
2. Cissus Quadrangularis Plant Extracts for Treating Osteoporosis and the Extraction Process Thereof

### *China– Total No. of Application 2*

1. Chickpea extracts as therapeutic agents and foods in the treatment and prevention of obesity and non-insulin-dependent diabetes
2. Oral pharmaceuticals or oral hygiene products comprising licorice flavonoid extract

### *Taiwan– Total No. of Application 1*

1. Composition for inhibiting nitric oxide and/or prostaglandin E2 synthesis and method for inhibiting inflammation

## *Citation from TKDL references through Third Party Observations*



### *Canada– Total No. of Application 2*

1. System And Method for Promoting Hair Growth and Improving Hair and Scalp Health
2. Therapeutic composition from Goji (*Lyceum barbarum* l.), methods of making and using.

*Total No. of TKDL Evidence filed so far(13 July 2010) in 30 Cases*

# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1906980 (METHOD OF TREATMENT OR MANAGEMENT OF STRESS)

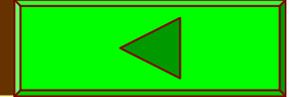
Title	Method of treatment or management of stress
Applicant & Country	Natreon Inc. 2-D Janine Place New Brunswick, NJ 08901 / US
Date of Filing	27-July-2006
Date of Third Party observation	05-June-2009
Applicant withdraw his application	25-March-2010
Period between Third Party observation and setting aside Intention to grant	<b>40 Weeks</b>



# *TKDL getting recognised TK as prior art by Patent Examination System*

<b>Claim of M/S Natreon</b>	Treatment or management of stress, using a high purity extract composition comprising withanolide glycosides oligosaccharides, withanolide aglycons.
<b>TKDL Evidences</b>	Prior art references from Ayurveda & Unani Books (15 references) were given concerning of use of Withania Somnifera along with other medicinal plants for providing relief in insomnia, blood pressure, palpitation, perspiration, anemia, gastric ulcer, restlessness.
<b>EPO Examination Report</b>	Search authority agreed to use of withania Somnifera for use of insomnia, gastric ulcer, restlessness etc all stress related diseases and withania Somnifera would contain compound such as withanolide glycosides, oligosaccharides, withanolide aglycons, therefore there is no novelty in the claim
<b>Withdrawal of Application</b>	M/S Nateron withdrew its application of 1.2.2007 on 25.3.2010.

# Availability of *Withania somnifera* in various countries and Usage



Sr no.	Country	Medicinal Use
1	India	As a Sedative, liver tonic, blood purifier, antidote against cobra poison and to induce abortion. For the treatment of Insomnia, hypertension, diabetes, tuberculosis, rheumatic pain, anaemia, inflammation of joints, nervous disorders, epilepsy, hiccup, cold, cough, female disorders.
2	South Africa	Alcoholism, tuberculosis and emphysema
3	Ethiopia	Cough, asthma, epilepsy
4	Somalia	Improves blood circulation, ulcer, skin disorders, sores, abcess, ear infection, fever, disturbed sleep, to repel snakes and scorpions
5	Mauritius	As a tonic, for treating Rheumatoid arthritis, skin diseases like ringworm, dysuria, gonorrhoea, gangrenous inflammation of rectum (as enema), asthma.
6	Cape Verde	As Blood purifier and diuretic and for treating gonorrhoea
7	Madagascar	Asthma

# Impact of TKDL & TKDL Access Agreement at EPO

## EPO PATENT APPLICATION NO: EP1825845

(Cosmetic herbal compositions)

Title	Cosmetic herbal compositions
Applicant & Country	Jan marini skin res inc, U.S.
Date of Filing	22-Feb-2007
Date of Third Party observation	02-July-2009
Applicant withdraw his application	08-April-2010
Period between Third Party observation and setting aside Intention to grant	<b>37 Weeks</b>



**NBT** 

YOUNG INDIA **YOUNG PAPER**

# नवभारत टाइम्स

नवीन जिंदल ने अपनी सैलरी की बढ़ों के नाम - p20 साइना को आभिर का सलाम, विश किया - p24

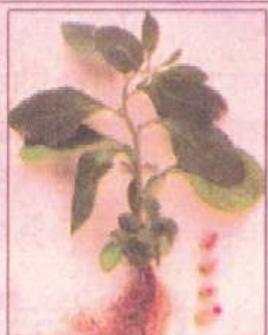
## ब्राह्मी, अश्वगंधा पर भी थी कब्जे की तैयारी

सुरेश उपाध्याय ■ नई दिल्ली

हिंदुस्तानियों की परंपरा में बसी ब्राह्मी पर भी नज़रें गड़ा दी गईं। लेकिन हल्दी, नीम, पुदीना और कमल की जंग जीतने के बाद केंद्रीय वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद (सीएसआईआर) की ट्रेडिशनल नॉलेज डिजिटल लाइब्रेरी (टीकेडीएल) ने ब्राह्मी के साथ ही अश्वगंधा, चाय की पत्तियों और हल्दी पर कब्जे की विदेशी साजिश को नाकाम कर दिया है।



ब्राह्मी



अश्वगंधा

### भारत की दौलत

ठंडे इलाकों में पाई जाने वाली ब्राह्मी चटख हरे रंग की होती है। इसका बॉटनिकल नाम थाकोपा मोनिफेरी है। याददाश्त बढ़ाने के लिए आयुर्वेद में इसका इस्तेमाल सदियों से होता आया है। अश्वगंधा का बॉटनिकल नाम विथानिया सोमनिफेरा है। यह ताकत और खूबसूरती बढ़ाने वाली दवा है। इसे गठिया की भी एक अच्छी दवाई माना जाता है। ऐसी ही एक जड़ी जिनसेंग चीन में पाई जाती है।

जेन मैरिनी स्किन रिसर्च इनकार्पोरेशन अमेरिका की स्किन केयर प्रोडक्ट बनाने वाली कंपनी है। इसने ब्राह्मी, अश्वगंधा, चाय की पत्ती और हल्दी के संयोग से बनाए गए एक स्किन केयर प्रोडक्ट के पेटेंट के लिए आवेदन कर दिया था। कंपनी ने इन चारों को चेहरे की रौनक बढ़ाने के साथ ही झुर्रियां दूर करने वाला बताते हुए यूरोपियन पेटेंट ऑफिस (ईपीओ) में आवेदन किया था।

टीकेडीएल के निदेशक वी. के. गुप्ता बताते हैं कि जेन मैरिनी के इस कदम की सूचना मिलते ही ईपीओ में

भारत की ओर से विरोध दर्ज कर दिया गया। ईपीओ को दस्तावेजों और पांडुलिपियों की मदद से बताया गया कि ब्राह्मी, अश्वगंधा, चाय की पत्ती और हल्दी का इस्तेमाल भारत में सौन्दर्य प्रसाधनों के अलावा औषधि के रूप में सदियों से किया जा रहा है। ब्राह्मी याददाश्त को बढ़ाने वाली, कोलेस्ट्रॉल को कम करने वाली और एंटी ऑक्सिडेंट (शरीर से विषैले पदार्थों को निकालने वाली) भी है। हल्दी पर कब्जा करने की एक कौशिश पहले अमेरिका में भी हुई थी। तब एक अमेरिकी कंपनी ने इसे घाव जल्दी भरने वाली दवा में इस्तेमाल करते

हुए इस पर अपना कब्जा करना चाहा था। जेन मैरिनी हल्दी को सूजन कम करने वाली बताते हुए इस पर कब्जा करने की फ़िराक में थी।

जेन मैरिनी ने अपने प्रोडक्ट को पेटेंट कराने के लिए 2006 में आवेदन किया था। इसका विरोध करने में इतनी देरी क्यों हुई? इसके जवाब में गुप्ता बताते हैं कि यूरोपियन पेटेंट यूनिन से भारत सरकार का समझौता जुलाई 2009 में हुआ था और इसके फ़ौरन बाद भारत एक्टिव हो गया। भारत के चैलेंज के बाद जेन मैरिनी को पीछे हटना पड़ा।

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# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP2015761

(Methods and composition for treating sore throat)

Title	Methods and composition for treating sore throat
Applicant & Country	Naveh pharma 1996 ltd, Israel.
Date of Filing	29-Mar-2007
Date of Third Party observation	24-July-2009
Applicant withdraw his application	15-April-2010
Period between Third Party observation and setting aside Intention to grant	<b>35 Weeks</b>

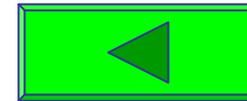
# Impact of TKDL & TKDL Access Agreement at EPO



## EPO PATENT APPLICATION NO: EP1660106

(Biotherapeutics for mitigation of health disorders from terminalia arjuna )

<b>Title</b>	Biotherapeutics for mitigation of health disorders from terminalia arjuna
<b>Applicant &amp; Country</b>	Avesthagen Limited , India
<b>Date of Filing</b>	15-Aug-2003
<b>Date of Third Party observation</b>	01-July-2009
<b>Applicant withdraw his application</b>	06-April-2010
<b>Period between Third Party observation and setting aside Intention to grant</b>	<b>38 Weeks</b>



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PASSENGERS CLAIM A SRINAGAR FLIGHT TO DELHI WAS DIVERTED  
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## India foils China's bio-piracy bid

Shows Age-Old Use of Pudina, Kalamegha To Stop A Patent On Bird Flu Drug Using Them

Kounteya Sinha | TNN

New Delhi: India has foiled a major Chinese bio-piracy bid to patent the use of medicinal plants 'pudina' (mint) and 'kalamegha' (andrographis) for the treatment of H5N1 avian influenza or bird flu.

The Council of Scientific and Industrial Research (CSIR), with the help of India's Traditional Knowledge Digital Library (TKDL), dug out formulations from ancient Ayurveda and Unani texts, like 'Cakradattah', 'Bhaisajya Ratnavali', 'Kitaabal-Haawi-fil-Tibb' and 'Qaraabaadeen Azam wa Akmal', dating back to the 9th century, to show that both pudina and kalamegha have been widely used in India since ages for influenza and epidemic fevers. After receiving exhaustive evidence from the CSIR that confirmed India's stand, the European Patent Office (EPO) on



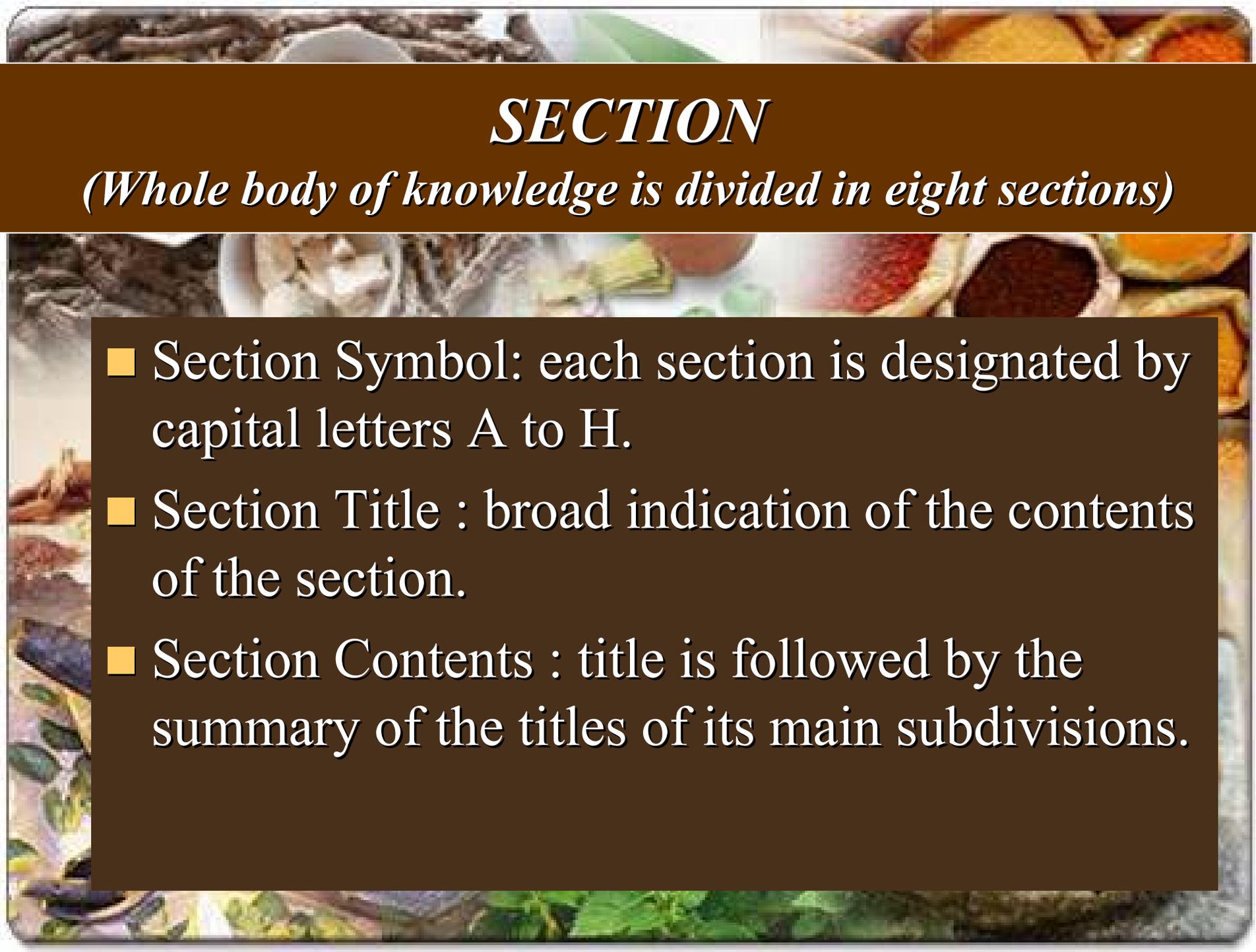
After receiving exhaustive evidence from the CSIR on the use of pudina and kalamegha in ancient Indian formulations to treat bird flu, the European patent office had on June 10 cancelled the decision to grant patent to Livzon, a China pharmaceutical company, on the medicinal properties of the two plants

June 10 cancelled the decision to grant patent to Livzon, a major Chinese pharmaceutical company, on the medicinal properties of pudina and kalamegha for treating bird flu. It all began when Livzon, on January 19, 2007, filed a patent application at the EPO, claiming the usefulness of pudina and kalamegha for the treatment of bird flu. Impressed with the data, the EPO had on February 25, 2010 de-

ecided to grant patent to Livzon. However, on April 27, TKDL director V K Gupta shot off a letter to the EPO informing the examiners that the medicinal properties of pudina and kalamegha have been long known in the Indian systems of traditional medicine. The letter said, "The patent application number EP1849473, titled Chinese traditional medicine composition for the treatment of avian

influenza, method for preparation, and application thereof, may kindly be referred to wherein the usefulness of andrographis (kalamegha) and mint (pudina) for the treatment of fever, detoxification and for the treatment of avian influenza, has been claimed to be novel." The letter added, "In the TKDL, there are several references where andrographis and mint are used for the treatment of influenza and epidemic fever. Hence, there does not seem to be any novelty or inventive step involved in the claims made in the above referred patent application."

Following the letter, the EPO set up a three-member panel to study the evidence. On June 10, the panel decided to cancel the Chinese patent claim. TKDL is a collaborative project between the CSIR and the Union health ministry's department of Ayush.



# *SECTION*

*(Whole body of knowledge is divided in eight sections)*

- Section Symbol: each section is designated by capital letters A to H.
- Section Title : broad indication of the contents of the section.
- Section Contents : title is followed by the summary of the titles of its main subdivisions.

# Example

Section A : Human Necessities

Section B : Performing Operations;  
Transporting

Section C : Chemistry; Metallurgy

Section D : Textiles; Paper

Section E : Fixed Constructions

Section F : Mechanical Engineering; Lighting;  
Heating; Weapons; Blasting

Section G : Physics

Section H : Electricity



# Subsection

- Within section, informative heading forms subsections. *Subsections are title without symbol*
- Example:
- Section A : Human Necessities  
— covering the subject matter under:
  - Subsections : Agriculture; Foodstuffs;  
Tobacco; Personal of  
Domestic; Articles; Health;  
Amusement



# Classes

- Each section is subdivided into Classes
  - *Class Symbol* : section symbol followed by a two digit number
  - *Class Title* : title gives an indication of the contents of the class
  - *Class Index* : gives an informative summary giving a broad survey of the contents of the class.

# Example

## Subsection : Agriculture

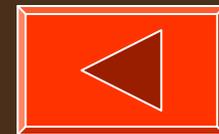
Class A 01 : Agriculture; Forestry; Animal Husbandry; Hunting; Trapping; Fishing

## Subsection : Foodstuffs; Tobacco

Class A 21 : Baking; Edible Doughs

Class A 22 : Butchering; Meat Treatment; Processing; Poultry or Fish

Class A 23 : Foods or Foodstuffs; Their Treatment, Not covered by other classes



# Subclasses

- Each class has one or more subclass
  - *Subclass Symbol*: class symbol followed by a capital letter
  - *Subclass Title* : indicates as precisely as possible the content of the subclass
  - *Subclass Index* : It is merely an informative summary giving a broad survey of the content of the subclass

# Examples

Class A 47— Furniture; Domestic Articles or Appliances; Coffee Mills; Spice Mills; Suction Cleaners; General.

Subclass A 47 B — Tables; Desks; Office furniture; Cabinets; Drawers; General details of furniture

Subclass A 47 C — Chairs; Sofas; Beds

Subclass A 47 D — Furniture specially adapted for Children

Subclass A 47 F — Special furniture, fittings, or accessory shops, storehouses, bars, restaurants etc.



# Groups/Main Groups

- Each subclass is further divided in Groups/Main groups
  - Group Symbol : subclass symbol followed by one-to three digit number, oblique stroke and then number 00.
  - Group Title : defines a field of subject matter considered to be useful for search purposes
  - Example :
    - C01B17/00 — Sulfur; compounds thereof.
    - B01B1/00 — Boiling apparatus for physical or chemical purposes



# Subgroup

- Groups/Main groups are further divided into subgroups to make more precise the subject matter of the invention
  - Subgroup Symbol : Subclass symbol followed by one-to-three digit no. of its main group, the oblique stroke and then no. of at least two digits other than 00. *Any third or subsequent digit after the oblique is to be understood as decimal subdivision of the digit preceding it.*
  - Subgroup Title : it defines a field of subject matter within the scope of its main group. It is further preceded by one or more dots indicating the hierarchical position of that subgroup.



# *National Regulations & Provisions on Filing of Third Party Observation / Pre-Grant opposition in different Patent Offices*

- **European Patent Office**

Third Party Oppositions can be filed under Article 115 of EPC after the Publication of Patent Application. There is no filing fee and no time limit.

- **United States Patent and Trademark Office**

Third Party Submission can be filed under 37CFR 1.99 within two months from the date of publication of Patent Application. Also, there is a fee of \$180.

- **Intellectual Property Australia**

Third Party Oppositions can be filed under section 27 of Australian Patent Act of 1990, between open to Public inspection and 3 months after Publication. There is no filing fee.

*Cont....*

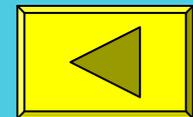
# *National Regulations & Provisions on Filing of Third Party Observation / Pre-Grant opposition in different Patent Offices*

- **Canadian Intellectual Property Office**

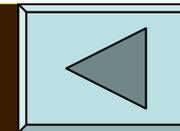
Third Party Oppositions can be filed under section 34.1 of Patent Act, after the Publication of Patent Application. There is no filing fee and no time limit.

- **Japan Patent Office**

Third Party Oppositions can be filed under Article 13 of Patent law. The Third Party Oppositions can be submitted at any time after a Patent Application is filed and even after grant of Patent. However, any person who neither has an address nor residence in Japan can not take any procedure so it is necessary to appoint an Agent or Attorney in Japan for submitting information. There is no fee involved.

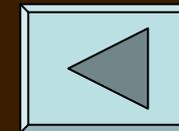


# Subgroup Categorization A61K 36/00



S. No	IPC codes	IPC Categories	No. of Subgroups
1.	Algae	A61K 36/02 to 36/05	4
2.	Fungi & Lichens	A61K 36/06 to 36/09	10
3.	Bryophyta	A61K 36/10	1
	Pteridophytes	A61K 36/11 to 36/126	3
	Gymnosperms	A61K 36/13 to 36/17	5
	Angiosperms	A61K 36/18	1
	Dicotyledons	A61K 36/185 to 36/87	148
	Monocotyledons	A61K 36/88 to 36/9068	35
<b>Total</b>			<b>207</b>

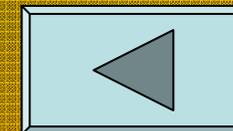
# Other Relevant IPC Symbols



S.No.	DESCRIPTION	No. of IPC SYMBOLS
1.	FLOUR OR DOUGH	6
2.	DAIRY PRODUCTS	7
3.	FOODSTUFFS & NON-ALCOHOLIC BEVERAGES	10
4.	DIAGNOSIS & SURGERY	5
5.	IMPLANT / STENTS	8
6.	DENTAL & TOILETRIES	224
7.	DEVICES	5
8.	THERAPEUTIC / CHEMICAL COMPOUNDS	144
9.	NON-METALLIC COMPOUNDS	20
10.	COMPOUNDS OF METALS	6
11.	COMPOUNDS AINING METALS	29
12.	CARBOCYCLIC COMPOUNDS	6
13.	MACROMOLECULAR COMPOUNDS	5
<b>TOTAL</b>		<b>475</b>

# Cases of Misappropriation Identified and Action taken during 2010

<b>Patent Office</b>	<b>No. of Cases</b>
• <b>United States Patent and Trademark Office</b>	- 196
• <b>Intellectual Property Australia</b>	- 43
• <b>European Patent Office</b>	- 219
• <b>United Kingdom Intellectual Property Office</b>	- 17
• <b>Canadian Intellectual Property Office</b>	- 109
	=====
<b>Total</b>	<b>584</b>
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# Misappropriation of India's TK at International Patent Offices (A61K 36/00) As per current TPO fill Update



<b>Sr. No.</b>	<b>Name</b>	<b>No of patent applications searched</b>
1	Austria	743
2	Australia	1627
3	Canada	994
4	China	1780
5	Spain	638
6	Finland	96
7	Japan	6502
8	Korea	326
9	Russia	57
10	Sweden	80
11	Nordic-Iceland	14
12	Nordic-Norway	184
13	Nordic-Denmark	358
14	EPO	352
15	USPTO	771
<b>Total</b>		<b>14522</b>