Introduction of
Korean Traditional Knowledge Portal
(KTKP)

March, 2011

Korean Intellectual Property Office
Background of Korean Traditional Knowledge

1. Korean TK history is about 5,000 years long.

   mountainous peninsula extending south-southeast

   about 30,000 species of animal and plant life.

   The indigenous medical traditions in the area have made extensive use of
   about 5,100 plants in history.
The first new drug as a natural product in Korea

Anti-arthritis Drug (Joins)

Herbal Healing

In 1995, Ryoo launched the Joins project to develop a new way of treating arthritis, which affects 10% of the world’s over-60 population. Ryoo decided to submit traditional Korean herbal remedies to stringent tests based on Western scientific methods. "Western medicine can't completely cure arthritis because they don't know its exact cause," he says. Ryoo began by analyzing the causes of arthritis using traditional methods. His studies showed there were three major causes: "wind," "coldness" and "warmth." These conditions, alone or in combination, were considered the root causes of arthritis.

In traditional medical practice, Ryoo then scoured the 600 herbs used for centuries in Korea, performing a long screening process that included tests on animals, and finally narrowed the field to three herbs. Ryoo combined them into a yellow pill the size of an aspirin and christened it Joins.

Joins

Ingredients: self-heal, trifoliate orange, Clematis root

What it’s used for: as an anti-inflammatory to relieve joint pains caused by arthritis

Joins®

Joins is a new anti-arthritis drug developed by the Life Science R&D Center of SK Chemicals.

Joins has a strong anti-inflammatory effect on the affected region.

Joins inhibits the degradation of proteoglycan and attenuates the osteoarthritic-like changes induced by collagenase and free radicals. So, Joins has a prophylactic effect against the progression of osteoarthritis. Joins has fewer adverse effects than existing NSAIDs and so can be prescribed to older patients over a long period.

::Description

Joins is effective against:

- Osteoarthritis (degenerative arthritis)
- (expected indication and effect)
- Rheumatoid arthritis

::Dosage & Administration

One tablet (600mg as active ingredients) 3 times daily.

::Characteristics

2. The anti-inflammatory and analgesic effects of Joins tab. are equivalent to Diclofenac sodium tab.
3. Joins tab. rarely causes gastrointestinal trouble.
4. Joins tab. is a new drug developed in Korea.
## Applications for Oriental Medicine Cosmetics

<table>
<thead>
<tr>
<th>Company</th>
<th>Cosmetics</th>
<th>Ingredients</th>
<th>Application Number</th>
</tr>
</thead>
</table>
| Amore pacific      |           | • Polygonatum officinale  
                      • Paeonia lactiflora  
                      • Pehmannia glutinosa  
                      • Lilium longiflorum   | 1997-0013647       |
| Hankook cosmetics  |           | • Wild ginseng adventitious roots                                             | 2001-0039685       |
| Rosee              |           | • Paecilomyces japonica  
                      • Acanthopanax senticosus  
                      • Ganoderam Lucidum,  
                      • Deer antlers  
                      • Ginseng          | 2003-0039770       |
| Somang cosmetics   |           | • Red ginseng                                                               | 1998-0058839       |
Market trend of Cosmetics using Oriental Medicine

Adclick market report (December, 1, 2006)
Application of Traditional preservation method of Kimchi in winter

Traditional stone jar for preservation of Kimchi at Beop-ju temple, in winter.

Refrigerator for Preservation of Kimchi throughout the year
“Nestle’s preparation method of flavored vegetable was canceled only in Korea, because of similarity with Kimchi.”

Patent dispute case of Korean Traditional Knowledge

United States Patent

Hsu et al.

PREPARATION OF A FLAVORED SOLID VEGETABLE AND VEGETABLE JUICE UTILIZING HYDROLYSED PROTEIN

Inventors: Jau Y. Hsu; Elaine R. Werdal, both of Brookfield, Conn.; William J. Kinsky, Blue Island, Ill.

Assignee: Societa d’Assistance Technique pour Produits Nestle S.A., Lausanne, Switzerland

Notice: The portion of the term of this patent subsequent to Sep. 8, 1999 has been disclaimed.

Filed: Oct. 4, 1983

Patent Number: 4,490,396

Date of Patent: Dec. 25, 1984

References Cited

U.S. PATENT DOCUMENTS

3,840,674 10/1974 Mosher ..................... 426/333

OTHER PUBLICATIONS


Primary Examiner—Robert Yoncoskie
Assistant Examiner—Marianne S. Minnick
Attorney, Agent, or Firm—Vogt & O’Donnell

ABSTRACT

A process for the production of flavored vegetables which comprises fermenting a vegetable in the presence of a powdered hydrolysed protein wherein the total amount of salt present in the process is from 1.0% to 4.5% by weight based on the weight of the vegetable.

3 Claims, No Drawings
1. Korean journal of Traditional Knowledge is fully digitized. Therefore, it can be easily provided to the International Authorities.

Articles related to TK selected from 47 kinds of main Journals.

Provided under the agreement on the right of on-line transfer.

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<th>Field</th>
<th>Number of Journals</th>
<th>Coverage</th>
<th>Format</th>
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<td>28</td>
<td>1947-2010</td>
<td>PDF</td>
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<tr>
<td>Sitology</td>
<td>7</td>
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<tr>
<td>Life science</td>
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## Contents of Article DB

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<th>Note</th>
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<tr>
<td><strong>Bibliographic data</strong></td>
<td>- Bibliographic data composed with title, author, author affiliation, journal, volume, issue, pages etc.</td>
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<td>- Patent analysis information.</td>
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“All Bibliographic info., title, abstract are provided in Korean and English with searchable format.”
Traditional Oriental Medicine DB

- Article DB is linked to Traditional Oriental Medicine DB.
# Traditional Life DB

<table>
<thead>
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<th>Field</th>
<th>Contents</th>
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| **Agriculture** | ▪ Agricultural technique used in traditional society  
▪ Description for traditional cultivating method and evaluation notes for the expected value  
▪ To link scholarly articles, patents related to agriculture |
| **Art of Living** | ▪ Traditional art of living related to food, clothing and shelter  
▪ Explanations, methods and notes regarding natural dyeing and traditional life and culture |
| **Food**      | ▪ Korean traditional food verified by ancient literature  
▪ Classification, ingredients, recipes of traditional food and ancient literature as a reference |
Korean Traditional Knowledge Portal

Provides free internet search service.

KJTK (Scholarly Article), Traditional Oriental Medicine, Agricultural life

http://www.koreantk.com
Search example of KJTK in the portal

Input-keywords

1. Integrated Search
   Article, herbs, etc.

2. Keywords
   title, publisher, writer, etc.

3. Tips on queries, operators, etc.

What is KJTK(Articles DB) Search?
It is a field search that allows the user to conduct searching with detailed information and to search within constructed KDBs by typing words into corresponding categories. When doing field search, each field applies AND(O) operator and Boolean method can be used to each fields.

What is the full-text search?
For the full-text search of KJTK(Articles DB), Boolean expression can be used.
Search example of KJTK in the portal

Result-List

1. Integrated Search
   Article, herbs, etc.

2. Sort by
   Title, publication date

3. Hyperlink to
   Abstract

4. Search History
**Result-Abstract**

**Abstract**

In English

**Original doc.**

In PDF file format

**Chemical Info.**

1. **Abstract**
   - Title, Volume issue, page
   - Date of issue, IPC, etc.

2. **bibliographic info.**

3. **In English**

4. **Search example of KJTK in the portal**
The Korean Traditional Knowledge Portal is accessible in Korean and English.

Bibliographic information, title, abstract etc.
Thank you!