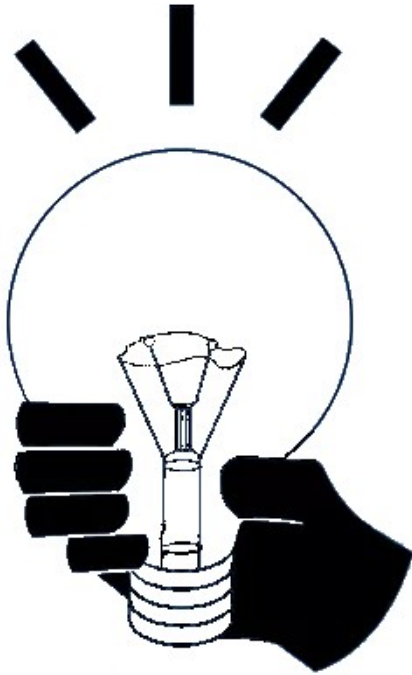


Patents



Patent

['pa-tənt]

A legal document giving the holder exclusive intellectual property rights over a specific invention, patents are an important element in encouraging innovation.

Table of Contents

What are Patents.....	1
<i>Definition of Patent.....</i>	<i>1</i>
<i>Types of Patents.....</i>	<i>1</i>
Patents for Natural Products.....	2
<i>Europe.....</i>	<i>2</i>
<i>USA.....</i>	<i>2</i>
<i>Examples of ROOT Brands Patented Products.....</i>	<i>2</i>
<i>Clean Slate:.....</i>	<i>2</i>
<i>Clean Spirits Trio.....</i>	<i>3</i>
New Patents.....	4
<i>PERMEABLE & SEMI-PERMEABLE SUBSTRATES – provisional.....</i>	<i>4</i>
<i>BIOCHEMICAL COMPOSITION & METHOD AND SUPPORT FOR COGNITIVE FUNCTION – provisional.....</i>	<i>5</i>
<i>TRYPTOPHAN METABOLISM STIMULATION COMPOSITIONS – provisional.....</i>	<i>6</i>
<i>EXTRACTIVES OF SILICA PRODUCTION – provisional.....</i>	<i>6</i>
<i>LECTIN DETOXIFICATION – provisional.....</i>	<i>8</i>
<i>FILTRATION SYSTEM – provisional.....</i>	<i>9</i>
<i>COLD PRESS NANOEMULSION - provisional.....</i>	<i>10</i>
Products & Inventions Available Soon.....	11
<i>No one else has or will have these Root Products and Inventions.....</i>	<i>11</i>
<i>WATER PURIFICATION.....</i>	<i>11</i>
<i>PRODUCT PACKAGING.....</i>	<i>11</i>
<i>ROOT WATER DEVICES.....</i>	<i>11</i>
<i>AIR FILTERING SYSTEMS.....</i>	<i>11</i>
<i>OTHER PRODUCTS AND DEVICES.....</i>	<i>11</i>
Medical Disclaimer.....	12

What are Patents

Definition of Patent

Patents protect the intellectual property of companies to help their profitability. However, patents also serve as bragging rights for companies demonstrating their innovativeness.

Types of Patents

There are 3 types of Patents:

1. **Design Patents** - In the United States, a **design patent** is a form of legal protection granted to the ornamental design of an article of manufacture. Design patents are a type of industrial design right. Ornamental designs of jewellery, furniture, beverage containers, and computer icons are examples of objects that are covered by design patents.
2. **Plant Patents** – Available to anyone who produces, discovers, and invents a new kind of plant capable of reproduction.
3. **Utility Patents** - People who invent a new and useful process, an article of manufacture, a machine, or a composition of matter **Utility patents are the most common type of patent, with more than 90% of patents** issued by the U.S. government belonging to this category.

3 Different Types of Patents



Design

Protects the design or exterior look of an invention.



Utility

Protects inventions such as machines, processes, or systems.



Plant

Protects the invention of new plant variants.

Patents for Natural Products

Europe

European law may allow patents to be granted to **natural products that are isolated for the first time from the natural environment**, where such products may not be eligible for patent protection in the USA.

USA

U.S. patent law had long been clear that **merely** isolating a natural product does not automatically render it patentable subject matter. The crucial requirement was that **the inventor must introduce a change that establishes the invention as "markedly different" from its naturally occurring counterpart**, either structurally or functionally

Examples of ROOT Brands Patented Products

Clean Slate:

Patent No: US 10,894,721 B2
Date of Patent: Jan. 19 2021,

A method developed for producing a water-soluble **hydrolyzed^A** clinoptilolite fragments and nutraceutical product based on water-soluble **clinoptolite^B** fragments infused with sodium aluminosilicate fragments which can be absorbed in vivo to detoxify, absorb and replenish minerals in the human body and the environment. No, Clean Slate does NOT contain **Graphene^C** because its made to remove heavy metals



-
- A. a chemical process of decomposition involving the splitting of a bond and the addition of the hydrogen cation (a positively charged ion) and the hydroxide anion of water
 - B. a natural zeolite composed of a microporous arrangement of silica and alumina tetrahedra
 - C. Graphene oxide is made with the same atoms as our organs, tissues and cells, its bi-dimensional nature causes unique interactions and can lead to severe effects like thrombogenicity and immune cell activation

Clean Spirits Trio

Patent No: US 11,896,608 B1

Date of Patent: Feb. 13, 2024,

Alcohol Metabolism Acceleration Composition

Clean Spirits is a composition for increasing alcohol metabolism provided in a food substance and and a drink formula.



The formulation is able to increase the alcohol metabolism of the user and can also assist the body in burning the carbohydrates and sugars associated with alcohol consumption.

The base of *Clean Spirits* formulations include:

- Hydrous aluminosilicate
- B Vitamin Complex
- Orthosilicates
- Hemp protein powder
- Magnesium & Calcium
- Vitamin E
- Wheat Grass
- Resveratrol
- Turmeric
- **Theanine^D**

D. Consumption and improved cognitive function, alleviation of psychological stress, maintenance of normal sleep, or reduction of menstrual discomfort

New Patents



Filed Inventorship and Patent Authored Portfolio

- Environmental Filtration System
- Skin Coating Protective Line
- Lectin Detoxification Method
- Biochemical Composition and Method for Support of Cognitive Function
- Cold Press Nano-Emulsion Formula and Method for Preparation of Nutritional Supplements
- Alcohol Metabolism Acceleration Composition
- Tryptophan Metabolic Stimulation Compositions
- Permeable and Semi-Permeable Substrate and Substance Clothing/ Non-Clothing
- Extractives of Silicate Production Method
- Water Soluble Electrolyzed Silicon Dioxide Formulation Solvolyzed Clinoptilolite Fragments, Pharmaceutical, and Environmental Products Based Thereon



PERMEABLE & SEMI-PERMEABLE SUBSTRATES – provisional

Detoxification in areas with high levels of heavy metals, radiation, and toxins is problematic. Clothing exposed to these can be difficult to clean, and tend to "hold in" these contaminants onto the largest organ of the body - **the skin**. No current products exist to target this problem for humans and animals



. This product offers a permeable and options; made from minerals, vitamins, and detox formulas and may be used in clothing or other articles to be worn, in hospital settings, areas of nuclear waste, areas high in toxins, or areas of high radiation that may enable the radiation, the high energy levels, and toxins

BIOCHEMICAL COMPOSITION & METHOD AND SUPPORT FOR COGNITIVE FUNCTION – provisional

A nutritional based formulation for individuals with cognitive disorders such as but not limited to **Alzheimer's** and **Dementia** as well as **sexual dysfunction**.

The formulation of the present invention further is focused on providing nutritional therapy to potentially treat other conditions such as but not limited to abnormal hormone function and sexual dysfunction.



includes varying percentages of the following and additional components:

- Turmeric root extract
- Cholecalciferol
- **N-acetyl-L tyrosine**^E
- Caffeine
- **L-Theanine**^F
- **Mucuna Pruriens**^G
- An additional vitamin group

could be added having a range of two to five percent of the total of the formulation

- An optional **fat blend** could further be incorporated into the formulation

E. Activates important neurotransmitters – optimizing brain function

F. People use L-theanine to improve mental function. It is also used for anxiety, mental impairment, stress, and other conditions

G. a tropical legume native to Africa and tropical Asia and widely naturalized and cultivated. Also known as Velvet Bean

TRYPTOPHAN METABOLISM STIMULATION COMPOSITIONS – provisional

A natural **anthropogenic^H** dietary supplement containing tryptophan in combination with vitamins as well as minerals in order to facilitate treatment of sleep disorders such as but not limited to jet lag disorder and circadian rhythm sleep disorder.

This formulation facilitates the increased metabolism of **tryptophan^I**. The components of the formulation are provided in either gel capsules or as a beverage does for consumption.

The formulations include versions that incorporate as a part thereof calcium salts and magnesium salts. Vitamins such as but not limited to niacin are further included in versions of the composition of the formulation.

Additional natural ingredients further contribute to the makeup of the composition of the formulation.



EXTRACTIVES OF SILICA PRODUCTION – provisional

Environmental toxins are implicated in illnesses and diseases such as Alzheimer's Dementia, Depression, Autism, Infertility, Diabetes, Hypertension, COPD, CVD, Dyslipidemia, Cancer, Neuropathy, Allergies, Addiction, ALS, Lyme disease, Parkinson's, M.S., Fibromyalgia, RA, hypercholesterolemia, etc.

There needs to be safe method to extract contaminants - nuclear waste, heavy metals, viruses, bacteria, parasites, and fungi from the body and environment

H. Of, relating to, or resulting from the influence of human beings on nature

I. Tryptophan is an essential amino acid used to make proteins. Your body does not make it, so you need to get it from your diet.

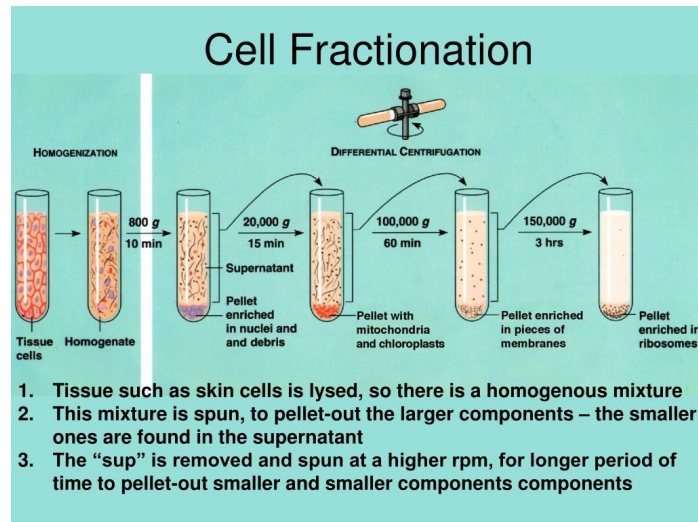
Current silver ions, silica, and zeolite formulas use hydrolyzed formulas but do not isolate **fractionation**^J and/or **cryogenic**^K thermal fractionation in order to isolate extractions for pharmaceutical and nutraceutical uses in a safe way so they may be used for the environment, and human bodies.

This patent pending invention provides a method of fractionation and extraction in order to isolate extractions for pharmaceuticals and nutraceuticals for utilization for treatment of diseases of the human body as well as provide treatment for animals.

The method of the present invention provides *fractionation* and extraction of ions, elements, and compounds from materials containing silver ions, silica, and/or zeolites.

The method of the present invention further adds various types of liquids, oils, heating methods, cooling methods, polarization methods, and nanotechnology processes to provide products for use in nutraceuticals supplements to assist with **aging, detoxification, support of the autoimmune system through removal of heavy metals, various toxins, viruses, bacteria, fungus, and parasites.**

The method of the present invention includes pretreating material to provide fluidization thereof. Separation of two fractions of the materials occurs and exposure to high-frequency pulses is also executed.



J. a separation process in which a certain quantity of a mixture (of gasses, solids, liquids, enzymes, or isotopes, or a suspension) is divided during a phase transition, into a number of smaller quantities

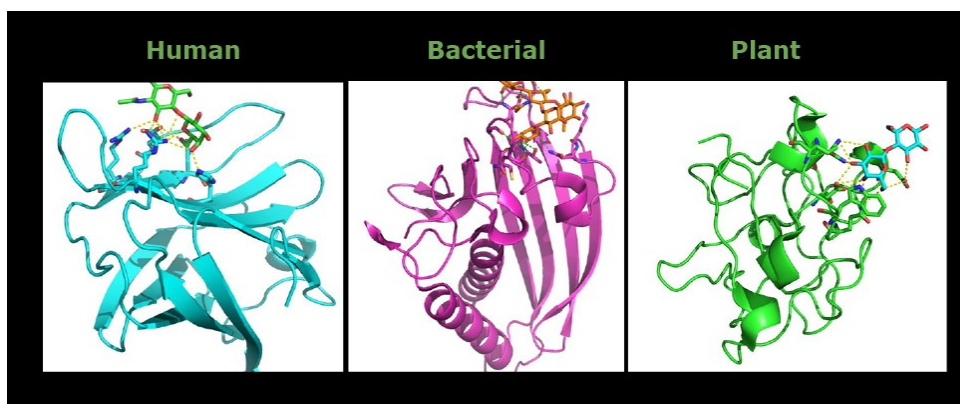
K. in physics, **cryogenics** is the production and behaviour of materials at very low temperatures.

LECTIN DETOXIFICATION – provisional

Lectins are sometimes dangerous because of how they bind to carbohydrates like sugar. You should avoid certain types of lectins due to a risk of:

Malnutrition

Certain types of lectins can prevent your body from absorbing other substances that have nutritional value. This can eventually lead to serious problems such as malnutrition.



The method of the present invention is operable to provide isolation, purification and characterization of a lectin from seeds, roots, bark, leaves, tubers, plants, fruits, vegetables, beans,

nuts, and oils in order to assist with the characterization of the lectin and its activities in products.

Detoxification of negative characteristics of lectin and protection of positive nutritional benefits which include but are not limited to ant-fungal, anti-viral, and anti-bacterial properties of the lectin while enhancing the important physiological roles, including insecticidal action, antibacterial activity, and antifungal effects, antihuman immunodeficiency virus, antitumor activity, and **analgesic^L** activity of lectin.

The present invention employs an aqueous magnetic two-step solution and further utilizes fractionation for lectin detoxification while providing protection of the nutritional, antihuman immunodeficiency virus, antitumor activity, analgesic activity, insecticidal activity, anti-viral, anti-fungal, and immunity benefits of lectin.

L. Pain reliever, or painkiller, is any member of the group of drugs used for pain management.

FILTRATION SYSTEM – provisional

Currently Available protective gear/clothing/masks do not provide adequate detoxifying or barrier components, and only address humans but not the needs of animals.

Below: Photo of a military dog wearing gas mask, ear protectors and goggles. For my illustrative purpose only



The embodiment of this invention may provide barriers from nuclear wastes, viruses, bacteria, fungi, parasites, heavy metals, and pesticides/herbicides, with the option to further contain a filtration device comprised of, infused or embedded with various forms of sodium aluminosilicate formulas, gold or silver nanoparticles.



Thus, capable of protecting against while also detoxifying from.

This can be used by humans and customized for animals per the species. Dr. Rahm's invention can be incorporated into protective clothing, special material to wear under other clothing, face mask, or material to wear under other masks

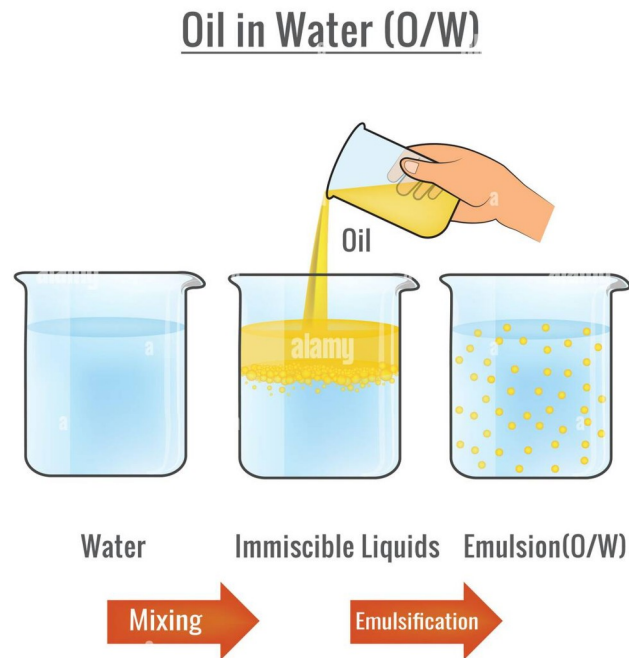
COLD PRESS NANOEMULSION - provisional

Nano-emulsions are tiny droplets sized and are **kinetically stable**^M colloidal systems that can be used within **cold press method**^N for many different formulations. This combination nano-emulsions and cold press enhance the functional properties in comparison to conventional emulsions.

The present invention relates generally to nutritional supplements and preparation thereof, more specifically but not by way of limitation, a method of supplement preparation operable to prepare foodgrade **nano-emulsions**^O utilizing cold press techniques wherein the supplements are derived from items such as but not limited to seeds, fruits, nuts, grains, and vegetables.

Furthermore, the method of the present invention further includes the addition of trace minerals and vitamins with various forms of aqueous isolates and ions of silicates. The formula and method of the present invention are focused on the support of initiating the body to assist with the support of anti-inflammation and initiation of the support of the immune system.

The present invention employs both a cold-press method to create intended products as well as includes a method to create a powder form.



M. Kinetically stable means it reacts but does so really slowly. Proteins are a good example of kinetic stability.

N. Any of various devices that apply pressure, but not heat, in the course of manufacturing and/or processing

O. Thermodynamically stable systems with the droplet size usually <100 nm. Nanoemulsions have been widely studied to increase the bioavailability of water-insoluble drugs

Products & Inventions Available Soon

No one else has or will have these Root Products and Inventions

WATER PURIFICATION

Clean Water – just a few drops to purify water new product

PRODUCT PACKAGING

Packaging to prevent toxins getting in to the product and for taking toxins out.

ROOT WATER DEVICES

Water filtering and purification.,

AIR FILTERING SYSTEMS

Air filter for planes, kitchen, water, pool, along with filtering negative substances from food and plants and water

OTHER PRODUCTS AND DEVICES

A whole line of products including devices that will alert people that something is wrong just by wearing on their hand.



Medical Disclaimer

The information provided is for educational purposes only and is not intended as medical advice or a substitute for the medical advice of a physician or other qualified health care professionals. This information is not to be used for self-diagnosis. Please always consult with your doctor for medical advice or information about diagnosis and treatment. Statements have not been evaluated by the Food and Drug Administration (FDA). These products are not intended to diagnose, treat, cure, or prevent any disease. ROOT is a company founded on improving people's understanding of how toxins and chemicals can harm your health. Instead of focusing on symptoms, ROOT targets the underlying root cause with natural wellness.