

GOLDI American Journal of Innovation, Development and Investment

مجلة دولية محكمة

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Global Universal Innovations Inc.
Development. Investment

Chairman

DR. IBRAHEM ALYASEN



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Page	Inventor or Researcher	E. Mail	Nationality	Title	Name
44	مخترع Inventor	nebrasrada5@gmail.com	العراق Iraqi	Purification of Gram Positive and Gram Negative bacteria to Elimination of <i>Proteus spp.</i> and swarming phenomenon of <i>Proteus spp.</i> by using Nd:YAG Laser, He-Ne Laser, Semiconductor laser and by Using different radioactive sources Co ⁶⁰ , Sr ⁹⁰ , Na ²² , Am ²⁴¹ , Tl ²⁰⁸ , Cs ¹³⁷ and with using Magnetic water	Nebras Rada Mohammed د. نبراس رضا محمد
49	مخترع Inventor	mahdi.hajhoseini@gmail.com	ايران	The process of obtaining mulch from food waste with 30 to 45% a ratio of organic matter	Mahdi Hajhoseini مهدي مجيد حاج حسيني
51	مخترع Inventor	alis53794@gmail.com	سلطنة عمان	جهاز مسعف/ الملخص بالعربي	ALI SALIM ALI AL-BUSAIDI علي بن سالم بن علي اليوسعيدي/ مخترع
52	مخترع Inventor وباحث	nebrasrada5@gmail.com	العراق Iraqi	Genetic Engineering of mutant <i>sak</i> enhanced by Cs ¹³⁷ radioactive sources express for mutant staphylokinase by M13 cloning vector transformed into <i>E. coli</i> DH5a and its medical applications for thrombosis therapy	Nebras Rada Mohammed د. نبراس رضا محمد
54	مخترع Inventor	soghyen@gmail.com	تونس	Hydropneumatic Flushing System	ANOUAR EL GUETTITI انور بن عمر القطيطي / : ١٢، نهج هرثمة ابن الاعين الوردية، تونس ١٠٠٩ - الجمهورية التونسية
56	مخترع Inventor	dr.ohood81@gmail.com	العراق	The use of antigens of <i>Klebsiella pneumoniae</i> as a immune catalyzer against infection by <i>Entamoeba histolytica</i>	OHOOD MUZAHM SHAKIR عهود مزاحم شاكر / مخترع
58	مخترع Inventor	Med.80med@outlook.com	تونس	Water_electricity Energy System (Système Énergie d'eau _Électricité)	CHOKRI BOURCHADA شكري بورشدة / العنوان: نهج ٤١٥٤ عدد ١٨ حي السعادة تونس صندوق البريد ٢٠٥ و محمد مرزوقي / لعنوان: نهج ٤١٥٤ عدد ١٨ حي السعادة تونس صندوق البريد ٢٠٥٢ MOHAMED



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64	باحث Researcher	a.ghidan@ju.edu.jo	الأردن	Nanotechnology applications in medicine	ALAA YOUSEFALI GHIDAN د. الأء يوسف علي غيطان
66	باحث Researcher	fadi@psut.edu.jo	الأردن	Design of low voltage integrated circuits	Fadi R. Shahroury فادي رياض شحروري
67	مخترع Inventor	wamelvis@gmail.com	كامبيرون	Food electronic processing dryer	Wam Elvis Mbviugeh
70	مخترع Inventor	hessahalhuwaish@yahoo.com	السعودية	OCCLUSAL CANTING IDENTIFYING TOOL أداة تحديد ميل الإطباق	HESSAH ABDULLAH M AL HUWAISH حصاة بنت عبد الله بن محمد الهويش /
72	مخترع Inventor	abidahkyat@gmail.com	سوريا	Automatic door handle sterilization device that works by using solar energy an :	ABDULAZIZ AHMED ALAWDEH عبد العزيز احمد مخترع العودة /
73	مخترع Inventor	nebrasrada5@gmail.com	العراق Iraqi	Preparation of a new culture medium to stimulate increased production of Staphylokinase produced from <i>Staphylococcus aureus</i> by using Acridine Orange(AO). أسم الوسط الزرعي الجديد Nebras Increase Production Staphylokinase Acridine Orange Agar	Nebras Rada Mohammed د. نبراس رضا محمد
76	مخترع Inventor	dr.mohamed.elgayar4@gmail.com	مصر	A device for adjusting angles, straightness, parallelism, and measuring the ratio of different angles of sides on different dimensions using laser light	Mohamed Khaled Ahmed Al-Gayar
77	باحث Researcher	a.hayouni@gmail.com	TUNI	Non-conventional sources of proteins for food and feed: Future trends for food security	EL AKREM HAYOUNI الأكرم حيونى
80	مخترع Inventor	furqanmohammed451@gmail.com	العراق	four inventions : 1- Mechanisms for controlling life, non-commercial and commercial transactions, both cyclical and non-periodic, in the Holy Qur'an	FURQAN MOHAMMED AZEEZ فرقان محمد عزيز/ مخترع
83	مخترع Inventor	mounir.bezzarga@yahoo.fr	Tunisian	Tunisia (ImmunoDefender)	Mounir BEZZARGA
86	مخترع Inventor	mohsin@ibtiker.com	قطر	The Oxy water tank cooler device	MOHSIN HUSSAIN A M AL-SHAKH محسن حسين احمد منصر الشيخ



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لجنة تحكيم الاختراعات الدولية

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GOIDI AMERICAN JOURNAL



GOIDI

General Definition

GOIDI U.S Magazine Considers As One Of The International Authority Of Inventions, Development And Investment's Institutions And Issued From America With All The Rights And Privileges.

GOIDI Is A Scientific, Cultural And Educational For All Thinkers, Academics, Inventors, Writers And Students For All Nationalities Worldwide.

The Magazine Is Published In English And Arabic Languages And Issued Online And On Papers Every Three Months Periodically During The Year

(Presenting Invention's Pioneers As Well As Global And Social Figures)

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
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
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PRESIDENT

The Word Of The Founder

President of GOIDI International Group

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DR. IBRAHIM YASEEN

Nowadays, we face an enormous number of sciences, institutions and no limitation of their ubiquitous. The diverse kinds of knowledge and science have various steadily and very huge. There is no longer a shortage of science or its institutions, but the information has become easily accessible by the simplest means by communication device. Thus, we are overwhelmed by science, but what we are introducing in our journal and what we are looking for that is the kind in its literal, scientific and technical meaning and the ways to benefit from millions of information, which has become a burden on the competent researcher individuals and institutions to obtain academic and theoretical science,.

This is the reason we had to publish this unique journal in its kind internationally and in the mechanism of its presentation and method of submission and the quality of its competent sections and the confidence of its institutions organizing them.



Highest international standards to save that effort, time and money. This decision

came after study and access to the international field, and we found a large space needs to work to fill the gaps and provide all useful and thoughtful to an important sector and vital dynamic that is the main engine of human life all and contributes to its growth and prosperity and development, which is the field of invention, innovation and creativity.

Therefore, we have the desire to allocate an institution to adopt this vision in order to complete this high-importance sector because of the presence of a large proportion of science owners working in the sector of creativity, innovation and invention need to focus on them and their work to promote and publicize them internationally.

We have also been keen to highlight the role of investors and businessmen to support this work and these creative projects, so that they will be partners with us in this scientific journey, which will reflect positively on communities, individuals and institutions. All industrial, productive, service, scientific and administrative competence find all his aim will be achieve.

This work facilitates his mission in spreading his knowledge and presenting it to local and international specialists.

Institutions, individuals and groups, thus we will creating a systematic scientific environment. Its data has been verified at the highest international level by well-known jury committees, and we have maintained integrity and transparency in



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feeding all fields with real, internationally valued science from many relevant parties.

In conclusion, we save time, effort and money for every truth-seeking and aspirant to develop his projects, institutions and works, hoping to be successful in providing all that contributes to the comprehensive development in life aspects.



GOIDI

DEFINITION OF THE JOURNAL

Vision

To become a journal for the inventors, innovators, creator and academic researchers and their sciences, and the bridge of global transit with the least effort, time, costs and a point of contact with investors, businessmen and all institutions with competence in this important sector.

The message

Provide the appropriate environment for inventors, innovators, creators, businessmen or research and scientific institutions so that they meet in one place and one platform to see their interests and projects until their research touches the decision-makers and interested from local and international institutions, universities and scientific research centers and incubators to provide them with science and projects achieved internationally to the highest approved standards.

Objectives

- To define the role of our organizations in driving the vehicle of international invention.
- To define of the most important international programs to be held.
- To define scientific identity to inventors.
- To introduce investors and entrepreneurs.



- To introduce the most important international institutions in the invention sector.
- To introduce international scientific research institutions and scientific incubators.
- To provide international programs for international exhibitions and scientific competitions.
- To Disseminate of inventions in all scientific sectors.
- Marketing the most important international inventions for interests from all international initiations.
- To Participate in spreading a culture of innovation and motivate it among young people.
- To Participate in transferring information in a scientific, systematic and academic manner.
- To Show the most important inventions and solutions to various life problems.
- To communicate and build practical relationships among formal instantiations ,international and inventors.

Definition of The Institution

GOIDI American Journal for Invention, Development and Investment is one of the institutions of GOIDI American group of Invention, Development and Investment It is an international non-profit, non-governmental organization that is based in the United States



The journal is a scientific cultural development awareness's to publish all scientific articles and publish inventions and definition inventors, innovators and creators from all countries of the world and all nationalities away from politics or religion and expresses the opinion of publishers.

Journal Definitions

It is one of the branches of the International Commission for Invention, Development and Investment (GOIDI) and is officially registered in the United States

Journal Categories

- Inventors, businessmen, investors, invention and scientific research institutions

Definitions

- The journal is published internationally
- Editorial team from all countries
- The journal will be published from the official US headquarters
- Two electronic versions and one hard copy are issued
- Published in Arabic and English language.
- Distributed in all international conferences and sent to the most important international private and governmental institutions.



The Idea of Establishment

Founder /Dr. Ibrahim Alyaseen

The idea of the founder comes complemented the programs and institutions of the US GOIDI and business integration and cover various aspects of life important and compatibility with the programs of the organization

Where there is a need for the community for a specialized and public journal in the same time and that it is specializes researchers, academics, inventors and creators from all countries and in order to highlight the leading international personalities and highlight the pioneers of invention and international personalities that serve the

International community and show them to the community in appreciation of them and definition international society to the most important businessmen who are interested in supporting the process of scientific research and the introduction of the institutions of invention and scientific research to introduce the identity card for the GOIDI American international group and all their international programs.

International Protocols

The possibility of establishing cooperation and twinning protocols with universities, scientific research institutions and international institutions to form strategic partnerships in support of the journal scientifically to contain the equivalent of prominent international journals.



Publication policies, rules and procedures in the journal

First: Publishing Policy

GOIDI Journal for Humanitarian Researches publishes researches written in both Arabic and English languages in different fields of human sciences. The journal accepts research from various countries of the world that would develop human sciences, enrich their practices, and provide priority to scientific research. In order to offer scientific and practical solutions to the problems faced by educational and scientific institutions.

Register The Journal Internationally

Goidi magazine is registered in the US Congressional Library of the Standard Numbers of the ISSN and registered with the International Organization for International Standards for ISNs.

Second: Publishing Rules In The Journal

- 1- The journal publishes scientific researches and articles that must be original and new, not previously published in other journals, periodicals, conferences, seminars It can be extracted from an academic thesis (Master's, Ph.D., Higher Diploma, or Graduation Project).
- 2- . Commitment to the etiquette of meaningful dialogue and constructive criticism away from defamation.
- 3- The journal publishes research that follows the scientific methodology, and takes into account the order in writing the research (title of the research, abstract, keywords, introduction, problem, importance, objectives, methodology and procedures, results and their discussion, conclusions, recommendations directed to bodies related to the topic of the research, List of references or sources).



- 4- 3- The journal publishes researches and articles that consider the depth of analysis, the quality of the research language, the method of presenting ideas, the accuracy of data and information analysis, and the relevance of the final results to the research questions, objectives and hypotheses.
- 5- The researchers should follow the scientific principles in quoting texts and documenting from various Arabic and English sources and references, taking into account the conformity of the documentation of the sources and references in the text with their presentation at the end of the research, and their alphabetical arrangement
- 6- The scientific integrity must be followed in the process of documentation and collecting complete data and information about the source to ensure the credibility and integrity of the research.
- 7- The first page of the research should contain the title of the research, the name of the researcher or triple researchers, his academic rank, place of work and name of countries, and the e-mail, in font size (12).
- 8- The researcher should attach an accurate summary of his research in both Arabic and English, with no more than (300) words, and key words at the bottom of the two abstracts, with no more than seven words.
- 9- The researcher should follow the APA documentation method, which is the American Psychological Association, meaning the margins are written in the body of the research as follows: Example:

Genghis Khan was able to impose his control over large areas of the Islamic East (Al-Ta'i, 2015, p. 30). That is, the documentation is as follows:

The author's family name, year of publication, page or pages, and this is done in parentheses such as: (Al-Jubouri, 1989, p. 27), if two authors write: (Al-Jubouri, Al-Taie, 1978, p. 77), if more than three writes: (Al-Jubouri and others, 1990, p. 66)

10-The sources are written in the list of sources at the end of the research in the following form: family name, personal name. Year of Publication. Book title, location, publishing and distribution house.

As in the following examples



Al-Taie, Souad Hadi. (2015). Studies in the history of the Turks and the Mongols. Adnan House for Publishing and Distribution, Iraq.

Pasha, Hussein. (1959). medieval Islamic Photography. Arab Manifesto Committee Press, Cairo.

11-The research texts should be printed in (Word 2010) at least, in (Simplified Arabic) font size (14), and the research papers in the English language should be printed in (Times New Roman) font (12).

12-All the dimensions of the margins of the four pages (top, bottom, right, left) should be (3) cm, and the space between the lines should be single.

13- The number of search pages for (٢٠) pages, including sources and appendices, and that the pages are numbered sequentially. To increase the number of pages, communicate with the magazine's administration

14-That the tables and figures be listed in their correct places, taking into account their numbering using Arabic numerals, and that they include titles and the necessary explanatory data, and the size of the font inside the table (12).

Third: Procedures for publishing in the journal:

- 1- That the researcher sends his research electronically to the journal titles advertised by the journal's editorial board.
- 2- That the researcher sends a brief CV that includes the full name of the researcher (s), his academic degree, the scientific institution in which he works, his most important books, and the positions he / she occupied.
- 3- The researcher shall be notified of receipt of the research within a week of the date of receiving the research by the editorial secretary, and it shall be presented to the editorial board to ensure its suitability for arbitration.
- 4- In the event that the research is eligible for arbitration in principle, it is presented to arbitrators who are specialized in the field of research, and they are selected in complete confidentiality, and the name or data of the researcher are



not presented to them, in order to express their views on the extent of the research's originality, its scientific value, and the extent of the researcher's commitment to sound scientific methodology. And determining the validity of the research for publication in the journal or not.

5- In the event that observations are received from the arbitrators, those observations shall be sent to the researcher to make the necessary amendments accordingly, provided that the amended research shall be resubmitted to the journal within a maximum period of one month.

6- The final copy of the research is reviewed with the referee's copy technically to ensure that the researcher makes the amendments and corrections proposed by the arbitrator, as well as follows the rules and procedures for publishing in the journal, by the editor-in-chief and the editorial secretary to confirm the validity of the research for publication in the journal.

7- The researcher shall be notified of the decision whether or not a research is valid for publication within a month at most from the date of receiving the revised research, the date of publication, and the number of the issue in which the research will be published, and he shall be given an electronic copy of the number of the journal published in it.

8- Scientific research published in the journal expresses the opinions of the authors without the journal bearing any responsibility for that.

10- The costs of publishing in the journal are a grant for distinguished researchers.



قواعد النشر / publishing rules

أولاً: سياسة النشر

تنشر مجلة جويدي GOIDI البحوث المكتوبة باللغتين العربية والانجليزية في أي مجال في مختلف التخصصات ، وترحب المجلة بنشر البحوث العلمية للباحثين من مختلف دول العالم، التي من شأنها أن تعمل على تطوير العلوم الانسانية، وإثراء ممارساتها، وتعطي الأولوية للبحوث العلمية التي تقدم اضافة علمية للمعرفة الانسانية، والتي تقدم الحلول العلمية والعملية للمشكلات التي تواجهها المؤسسات التعليمية والعلمية.

ثانياً: قواعد النشر في المجلة

1- تنشر المجلة البحوث التي تتميز بالحدثة والأصالة، والاضافة العلمية، والسلامة الفكرية، في مجال العلوم الانسانية.

2- تنشر المجلة البحوث التي تتبع منهجية علمية سليمة، وتراعى الترتيب في كتابة البحث (عنوان البحث، المستخلص، الكلمات المفتاحية، المقدمة، المشكلة، الأهمية، الأهداف، المنهجية والإجراءات، النتائج ومناقشتها، الاستنتاجات، التوصيات الموجهة إلى الجهات ذات العلاقة بموضوع البحث، قائمة المراجع أو المصادر).

3- تنشر المجلة البحوث التي تتميز بعمق التحليل، وجودة لغة البحث، وأسلوب عرض الأفكار، ودقة تحليل البيانات والمعلومات، وملائمة النتائج النهائية لأسئلة البحث وأهدافه وفرضياته.

4- أن لا يكون البحث المقدم للنشر قد قدم للنشر أو نشر في مجلات أو دوريات أو مؤتمرات أو ندوات ، ويقدم الباحث تعهد خطي بذلك حسب النموذج المعتمد من هيئة التحرير .



5- أن يتبع الباحث الأسس العلمية السليمة المتعارف عليها في اقتباس النصوص والتوثيق من المصادر والمراجع العربية والانجليزية المتنوعة، مع مراعاة تطابق توثيق المصادر والمراجع في المتن مع عرضها في نهاية البحث، وترتيبها ابجدياً.

6- يجب اتباع الأمانة العلمية في عملية التوثيق وجمع البيانات والمعلومات كاملة عن المصدر لضمان مصداقية البحث وأمانته.

7- أن تحتوى الصفحة الأولى من البحث على عنوان البحث، وأسم الباحث أو الباحثين الثلاثي، ومرتبته العلمية، ومكان العمل واسم الدول، والبريد الإلكتروني، بحجم خط (12).

8- أن يرفق الباحث ملخص دقيق لبحثه باللغتين العربية والانجليزية بما لا يزيد عن (300) كلمة، وكلمات مفتاحية (Keywords) أسفل الملخصين بما لا يزيد عن سبع كلمات.

9- أن يتبع الباحث طريقة توثيق APA وهي (American psychological Association)

اي تكتب الهوامش في متن البحث بالشكل الاتي :مثال:

تمكن جنكيزخان من فرض سيطرته على مناطق واسعة من المشرق الاسلامي(الطائي
، 2015، ص30).

اي يكون التوثيق بالشكل الاتي :

اسم عائلة المؤلف، سنة النشر، الصفحة أو الصفحات، ويتم ذلك بين قوسين مثل: (الجبوري، 1989،
ص 27) ، إذا كان مؤلفان يكتب : (الجبوري، الطائي، 1978، ص 77)، إذا كان أكثر من ثلاثة يكتب:
(الجبوري وآخرون، 1990، ص 66)

10- تكتب المصادر في قائمة المصادر في نهاية البحث بالشكل الاتي : الأسم العائلي، الأسم
الشخصي. سنة النشر. عنوان الكتاب، المكان، دار النشر والتوزيع .



كما في الامثلة الاتية

الطائي، سعاد هادي.(٢٠١٥). دراسات في تاريخ الترك والمغول . دار عدنان للنشر والتوزيع، العراق.

Pasha, Hussein. (1959). medieval Islamic Photography. Arab Manifesto
.Committee Press, Cairo.

١١- أن تكون نصوص البحث مطبوعة برنامج (Word 2010) على الأقل، بخط نوع (Simplified Arabic) حجم (14)، والبحوث باللغة الانجليزية تطبع بخط نوع (Times New Roman) حجم (12) .

١٢- أن تكون جميع أبعاد هوامش الصفحات الأربعة (العليا، السفلى، اليمنى، اليسرى) (3) سم، والمسافة بين الأسطر مفردة.

١٣- أن لا تزيد عدد صفحات البحث عن (٢٠) صفحة، بما فيها المصادر، والملاحق، وأن ترقم الصفحات ترقيم متسلسل.

14- أن تكون الجداول والأشكال مدرجة في أماكنها الصحيحة، ومراعاة ترقيمها باستخدام الأرقام العربية، وأن تشمل العناوين والبيانات الايضاحية الضرورية، ويكون حجم الخط داخل الجدول (12).

ثالثاً: إجراءات النشر في المجلة:

- ١- أن يرسل الباحث بحثه إلكترونياً إلى عناوين المجلة المعلن عنها من هيئة تحرير المجلة.
- ٢- أن يرسل الباحث سيرة ذاتية موجزة تتضمن الاسم الثلاثي للباحث / الباحثين ودرجته العلمية، والمؤسسة العلمية التي يعمل بها، وأهم مؤلفاته، والمناصب التي شغلها.
- ٣- يتم اشعار الباحث باستلام البحث خلال أسبوع من تاريخ استلام البحث من قبل سكرتير التحرير، والعرض على هيئة التحرير للتأكد من مدى صلاحيته للتحكيم.



٤- في حالة صلاحية البحث للتحكيم مبدئيًا يتم عرضه على محكمين من ذوي الاختصاص في مجال البحث، ويتم اختيارهم بسرية تامة، ولا يعرض عليهم اسم الباحث أو بياناته، وذلك لإبداء آرائهم حول مدى أصالة البحث، وقيمه العلمية، ومدى التزام الباحث بالمنهجية العلمية السليمة، وتحديد مدى صلاحية البحث للنشر في المجلة من عدمها.

٥- في حالة ورود ملاحظات من المحكمين ترسل تلك الملاحظات إلى الباحث لإجراء التعديلات اللازمة بموجبها، على أن يعاد إرسال البحث المعدل للمجلة خلال مدة أقصاها شهر.

٦- تتم مراجعة النسخة النهائية للبحث مع نسخة المحكم فنيًا للتأكد من قيام الباحث بإجراء التعديلات والتصويبات المقترحة من المحكم، وكذلك اتباعه قواعد واجراءات النشر في المجلة، من قبل مدير التحرير وسكرتير التحرير لإقرار صلاحية البحث للنشر بالمجلة.

٧- يخطر الباحث بقرار صلاحية بحثه للنشر من عدمها خلال شهر على الأكثر من تاريخ استلام البحث المعدل، وبموعد النشر، ورقم العدد الذي سينشر فيه البحث، ويمنح نسخة الكترونية من عدد المجلة المنشور فيها.

٨- تعبر الأبحاث العلمية التي تنشر في المجلة عن آراء المؤلفين دون تحمل المجلة أدنى مسؤولية تجاه ذلك.

٩- تكاليف النشر في المجلة منحة للباحثين المتميزين.

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GOIDI INTERNATIONAL GROUP OF INSTITUTIONS

AMERICAN GOIDI GROUP

2- International Centre of Women Entrepreneurs (I C W E)

3- International Centre of Recognised Investment (I C R I)

4-International Training Leaders Center (ITLC)

5- International Centre of Young Entrepreneurs (I C Y E)

6- International Centre of Strategic Research (I C S R)

7- Centre of Creativity & Innovation For Smart Minds (C C I S M)

8- Everest International of Invention (E I I)





EVEREST INTERNATIONAL OF INVENTION / E I I

Creativity, Innovation Invention



INTRODUCTION

Everest works on international programs specifically for young people, students, inventors and innovators, Creators and all that works to highlight the role of women and work to develop, and evaluate Arab and foreign countries and accept members from all countries of the world

It also called for the rejection of racism, everyone in science, regardless of religion, color, race or nationality

And culminated in efforts to open channels of international communication and embodied this through the establishment of conferences and speeches and competitions International inventors and from all countries and the establishment of international youth camps for cultural exchange and exchange Of experience

Everest also insists on renouncing violence, extremism, terrorism and filling the vacuum among young people through training programs Cultural and international issues

Everest aspires to excellence and innovation in all its operations, non-imitation of others and the provision of every program with a new perspective



GOIDI AMERICAN JOURNAL



Everest is a non-profit organization for innovation, invention and innovation

It is officially one of institutions of GOIDI based in –USA

Founder and Rapporteur Of All Institutions and Initiatives

Headed by

Dr. Ibrahim Al Yassin,

Chairman of The Board Of Directors

Visions

The organization becomes the platform and container that embraces and concerns inventors, innovators and innovators specifically

Students and young people with all their aspirations and educational programs and interest in international University education and meet under Its umbrella is all the institutions of invention, innovation, creativity, scientific institutions, students and

Youth to find Land and a fertile environment to exercise their attention and catch up with global development

Our Mission

Create an educated community of inventors, innovators and innovators from all segments of society, intellectually strengthened, Science and knowledge and awareness of the comprehensive and within the framework of scientific planning and prepared away for confusion and non-methodology And randomized and blinded thought and thought and participates in providing the community with the process of construction, development and development



This is being promoted through training, capacity-building, workshops, regular scientific conferences and awareness seminars and to encourage and adopt means of luxury to fill the void with targeted community activities

The most important goals of Everest -

Highlighting the role of youth and inventors internationally and demonstrating their abilities

Marketing their inventions and introducing their scientific identity

Reduce the gap between them and the investment sector and build bridges between them and the international institutions concerned By invention

Provide guidance and assistance in the registration of international patents

Supporting women and highlighting their role internationally through international forums

Working side by side with businessmen to overcome financial difficulties

General Strategic Objectives

Comprehensive education (scientific, social, cultural, political, religious and health)

Marketing inventions and innovations

Establishing training programs that promote the concept of invention, innovation and creativity

Establishing scientific conferences

Organizing competitions and international exhibitions

Bridging the gap between investors and inventors and bringing distances closer to the latest scientific methods

Supporting communities with inventions that help solve international problems

Introducing inventions and inventors in all possible ways



Issuing an international magazine to publish all inventions internationally

Develop capacity and training to adapt the labor market and support students with the best vocational courses required in

Local and international markets and strengthening them with the best certificates in the world market

Supporting scientific research and opening doors for innovation and creativity for qualified students and helping them to develop their abilities

Through scientific communication locally and internationally

To reach women to a high level and to change the society's negative attitude toward them

Programs offered by Everest

Establishment of international exhibitions of inventors

Set up international competitions for inventors

Establish training programs for inventors

The establishment of various international conferences

Establishment of conferences and women's forums

Setting up programs for youth (camp camps, competitions, contests)

Setting up sports programs for young people

Establishing various training programs

Marketing inventions

Publishing inventions and introducing inventors in the International Journal of Inventors

Publish research in international refereed journals

Submit international certificates



Business and services received by Everest

1. Establishing international protocols with all governmental, private and non-profit organizations locally and internationally
2. Membership and membership
3. Request for the establishment of international branches
4. Cooperation in the establishment of training programs
5. Cooperation in the establishment of international conferences and exhibitions
6. Sponsorship of international programs

International Arbitration Committees

Everest has nominated an international jury to work with them to evaluate inventions in international competitions and exhibitions.

Certificates and Credits

Everest has worked to promote the concept of the international community through the provision of international certificates and credit High-level live up to its owner and supports the practical file and facilitate the acceptance of interested donors, supporters, Investors, research and University institutions and others

Management

Everest is a member of the international management team, including members, representatives, administrators and consultants from all Arab countries And foreigners with higher academic degrees from University professors and heads of institutions and



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People distinguished experts and specialists in various fields of science and international excellence





GOIDI PROGRAMS AND SERVICES

- ١ . خدمات الاختراع والابتكار
- ٢ . خدمات ريادة الاعمال
- ٣ . اقامة المؤتمرات العلمية والاجتماعية
- ٤ . اقامة معارض الاختراع والابتكار
- ٥ . خدمات تسجيل براءات الاختراع والملكية الفكرية
- ٦ . خدمات الاستثمار والتسويق للاختراعات
- ٧ . اقامة برامج التدريب الاحترافية
- ٨ . نشر الأبحاث في المجلات الدولية
- ٩ . اقامة برامج ومؤتمرات للمرأة
- ١٠ . اقامة برامج الشباب المتعددة
- ١١ . اقامة مؤتمرات وبرامج للبحوث الاستراتيجية
- ١٢ . اقامة برامج للموهوبين الصغار
- ١٣ . اقامة الندوات العلمية الهادفة
- ١٤ . تقديم شهادات الاعتمادات الدولية لخبراء التدريب ومؤسسات التدريب من بريطانيا
- ١٥ . تقديم شهادات باعتماد GOIDI الأمريكية
- ١٦ . خدمات التحكيم الدولي
- ١٧ . إدارة البحث العلمي والاستراتيجي
- ١٨ . استقبال الشراكات الدولية مؤسسات و افراد
- ١٩ . استقبال الراغبين بالراعيات
- ٢٠ . استقبال الراغبين بالتبرع ودعم المنظمة للبرامج العلمية والاختراعات
- ٢١ . برامج العضوية الدولية المتعددة من كافة المؤسسات



الاعتماد الدولي للمؤسسات التدريبية وكافة خبراء التدريب من مؤسسات بريطانية دولية معتمده ومتخصصة في قطاع التدريب

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بطولة كاس العالم للبحث العلمي والاختراعات باستضافة الحكومة التونسية

تعريف المشروع

اقامة مشروع سنوي يجمع بين الباحثين والمخترعين واصحاب المصالح ورجال الاعمال والمستثمرين وكافة المؤسسات الحكومية والخاصة واصحاب القرار من اجل ايجاد بيئة داعمة لصناعة الاختراعات كما نعمل على تأسيس منظومة دولية لقطاع الاختراع وريادة الاعمال واعادة تشكيل في اقامة المعارض الخاصة بالاختراعات بحيث تصبح هادفة ومؤثرة ومتأثرة من خلال ارضية دولية يجتمع فيها اصحاب الاختصاص ورؤوس الاموال من افراد ومؤسسات في القطاعين الخاص والحكومي والدولي بحيث تحول الى معارض انتاجية واستثمارية اضافة الى ماهية العرض .

اهداف المشروع

احداث ثورة صناعية وانتاجية جديدة عالميا من خلال العمل على افضل الاختراعات دوليا وتقديمها للمهتمين في تطوير مؤسساتهم قطاعات الاسواق والتفوق بالمنافسة الدولية في المنتجات السوقية والصناعية والعلمية والخدماتية والطبية والتكنولوجية والطاقة وكافة الاختصاصات الاخرى وهذا على سبيل الذكر وليس للحصر

دعوة اصحاب المصلحة من المستثمرين ورجال الاعمال والمؤسسات الاستثمارية والمالية والخاصة والحكومية لاستثمار هذه الفرص واقامة تعاقدات وبرامج تعاون دولية .

الجهات المنظمة

1. وكالة النهوض بالصناعة تحت إشراف وزارة الصناعة والمناجم والطاقة وبالشراكة في تونس
 2. منظمة افريست الدولية للاختراع وبإشراف الهيئة العالمية الامريكية للاختراع والتنمية والاستثمار وتعتبر احد مؤسساتها المنبثقة منها / امريكا
- ويأتي تنفيذ البطولة في إطار فعاليات صالون "TICAD INNOVATION" الذي سيقام في تونس من 1 - 2 / 09/ 2022 على هامش الفعاليات الموازية للقمة الثامنة لندوة طوكيو الدولية للتنمية في إفريقيا (TICAD8) بحضور رؤساء دول ووزراء ومؤسسات حكومية وسفارات ومنظمات دولية ومؤسسات اعلامية وطنية ودولية ورجال اعمال ومستثمرين وكافة المؤسسات التجارية والصناعية والعلمية.



بالتعاون الحكومي مع المؤسسات التالية :-

- وزارة التعليم العالي والبحث العلمي
- الوكالة الوطنية للنهوض بالبحث العلمي
- المعهد الوطني للمواصفات والملكية الصناعية
- الجمعية التونسية للبحث العلمي والابتكار والملكية الفكرية.

تتمحور أهم الفعاليات في:

١. مشاركته أفضل الاختراعات المتنافسة في الدورة الثالثة للمناظرة الوطنية للاختراع تونس ٢٠٢٢
٢. تصفيات بطولة كاس العالم للاختراع والبحث العلمي
٣. لقاءات شراكة بين الباحثين والمخترعين والمؤسسات الاقتصادية المشاركة في القمة الدولية
٤. ندوات وملتقيات يابانية إفريقية ورشات حول التجديد والتصنيع ونقل التكنولوجيا؛
٥. المعرض الدولي للتجديد والبحث والاختراع
٦. انطلاق مبادرة تصنيع الاختراعات وبدء المرحلة الاولى للتسجيل واستقبال الطلبات
٧. تدشين صندوق الاستثمار المعرفي.

ان هذا الحدث يمثل منافسة علمية بين الدول وابرار افضلها في مجال البحث العلمي والاختراع وريادة الاعمال حيث سيتم تكريم الدول المشاركة من خلال وزارات التعليم العالي والسفارات وتكريم المشاركين من الباحثين والمخترعين ويأتي هذا التكريم في :

الحفل الختامي الخاص للقمة الثامنة لندوة طوكيو الدولية للتنمية في إفريقيا (TICAD8) وعلى مشاهدة عالمية واعلامية .

اهم المرتكزات والتطلعات الاستثمارية في المشروع :

١. معرض الاختراعات الدولي
٢. تأسيس صندوق الاستثمار الخاص بالاختراعات
٣. لقاءات مع رجال الاعمال والمستثمرين
٤. لقاءات مع مؤسسات حكومية وخاصة
٥. فرصة استضافة المشروع في كافة الدول بشكل دوري وسنوي
٦. اطلاق برامج اقتصادية تترافق مع المشروع
٧. التعريف بالمؤسسات الراحية والداعمة على مستوى دولي ضخم
٨. ايجاد حلول جذرية لمعوقات في قطاع متعددة
٩. ايجاد اختراعات تساهمك في تطوير المؤسسات الاستثمارية.



مواطن القوة في هذا المشروع :

١. يقام تحت اشراف الحكومة التونسية
٢. يقام بالشراكة الدائمة والمستمرة سنويا مع الجمهورية التونسية
٣. اقامة المشروع في كافة الدول سنويا وباستضافة حكومية
٤. طرح العديد من البرامج المستجدة على الساحة الدولية
٥. يتزامن هذا المشروع حصرا لعام ٢٠٢٢ مع القمة الثامنة لندوة طوكيو الدولية للتنمية في إفريقيا (TICAD8)
٦. اطلاق صندوق الاستثمار المالي المعرفي والتي سيكون تحت ادارة واشراف الدولة التونسية ومنظمة الهيئة العالمية الامريكية وهذا سيعود بايرادات على المستثمرين من خلال صناعة الاختراعات وبرامج خاصة بهذا القطاع حصرا
٧. اطلاق مبادرة تصنيع الاختراعات وهذا بالتالي سيكون مقدمة لإقامة تعاقدات مع مصانع عبر العالم
٨. حضور رؤساء دول ووزراء و كبرى المنظمات الدولية والسفارات الدبلوماسية ومؤسسات اعلامية دولية
٩. فرصة اقامة العديد من التعاقدات مع المنظمين ومع مختلف القطاعات الحاضرة
١٠. حضور ومشاركة دولية



كلمة د. ابراهيم الياسين

رئيس الهيئة العالمية الامريكية

المقرر والمؤسس ورئيس بطولة كأس العالم للاختراع والبحث العلمي

جاءت بطولة كأس العالم للاختراع والبحث العلمي لتشكل فارقا في إبراز منجزات المخترعين والباحثين المتميزين ضمن خطة استراتيجية ذات أبعاد مستقبلية لتحقيق هذه الإنجازات بعيدا عن المعتاد من اقامه المعارض والمؤتمرات المكررة، لهذا ولدت مبادرة بطولة كأس العالم كحدث استثنائي وتاريخي وللمرة الأولى عالميا بحيث ينقل المتميزين الى العالميه بزمن قياسي وعلى اعلى درجة من الجودة والاحترافيه، ومن اجل تحقيق ذلك جاءت هذا الشراكة مع الحكومات والمؤسسات الرسمية والمنظمات الدولية بحيث تقع هذه البرامج تحت اشراف وتحكيم كوكبه من كبار المنظمات العالمية مثل الأمم المتحدة والاتحاد الأوروبي والايفيا ووزارة التعليم العالي والعديد من البروفيسورات المرموقين وعلى رأسها الهيئة العالمية الامريكية بحيث يجعل هذا العمل بصمه علمية معتمدة دوليا وإعلاميا في كافة دول العالم وللغانزين حصرا. حيث تقام البطولة على شكل منافسه علمية ضمن عدة سنوات وتجميع هذا الجهد العلمي والذي ظن أصحابه بأنه ذهب ادراج الرياح لنقول لهم لا سيتم إبراز الجهود والنتاج العلمي والذي بذل فيه المال والوقت والجهد حتى يقدم الباحث أو المخترع للعالم كشخصيه دولية متميزة. مرموقه يبحث عنها أصحاب الاستثمار والمصالح الدولية ، بهذا تشكل الهيئة العالمية إدارة البطولة فارق على طريق البحث العلمي الرئيسي وتصويب المسار وعززت الهيئة العالمية أهمية هذا البطولة بأن رافقها تدشين صندوق الاستثمار المعرفي لتصنيع الاختراعات وتدشين اول موسوعه علميه عالميه لافضل وأبرز رقم عالمي منفرد ومن أجل تسجيل كافة براءات الاختراع وحفظها في السجلات الدولييه ومن أجل أن يبقى هذا البرنامج الدرع الواقي والجسر الأمن للباحثين والمخترعين فقد قررنا إقامته نهاية كل عام وبصورة دوريه في مختلف دول العالم ليبقى نموذجا يحتذى و شعلة يرتادها ويبحث عنها المتميزين وأصحاب الذكاء والقدرات العالية وسيكون للدورات القادمه برامج قيمه وعالية المستوى وعلى صعيد حكومي وورسمي ودولي.

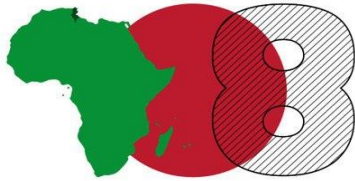
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براءة اختراع



Purification of Gram Positive and Gram Negative bacteria to Elimination of *Proteus spp.* and swarming phenomenon of *Proteus spp.* by using Nd:YAG Laser, He-Ne Laser, Semiconductor laser and by Using different radioactive sources Co^{60} , Sr^{90} , Na^{22} , Am^{241} , Tl^{208} , Cs^{137} and with using Magnetic water

اسم طريقة التنقية الجديدة

Nebras purifying by Lasers Method

Nebras purifying by Irradiation Method

Nebras purifying by Magnetic water Method

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٣- د. هناء صالح سبع / علوم فيزياء / الجامعة المستنصرية



Abstract

It came search to a statement eliminate Swarming of *Proteus spp.* phenomenon, and the elimination of *Proteus spp.* that contaminated several bacterial types and purification of Gram positive and Gram negative bacteria including *Pseudomonas aeruginosa* , *Vibrio cholerae* , *Klebsiella pneumoniae* , *Acinetobacter baumannii* , *Aeromonas hydrophila* , *Lactobacillus sp.* , *Salmonella sp.* , *Pantoea sp.* , *Staphylococcus epidermidis* , *Micrococcus sp.* , *Morganella morganii* , *Escherichia coli* Isolated from clinical sources and different ones of the patients with tumors and cancers, by using several methods for the first purification using the types of lasers and laser used in purification is Nd: YAG, pulse laser at a wavelength of 1.06 nm to 500 pulse between each pulse and pulse 6 seconds . also used Semiconductor laser , a continuous laser at a wavelength of 650 nm with power 5 milliwatts. and used He-Ne laser at a wavelength of 632.8 nm with power 1 milliwatts. The purification method using a laser is the efficient purification of the Gram positive and Gram negative bacteria and eliminate the *Proteus spp.* and eliminate the phenomenon of swarming *Proteus spp.* where they were eliminated by using the semiconductor laser and laser He-Ne in time of 30 minutes, while the Nd:YAG laser eliminate contamination of these bacteria to 500 pulse .

The second purification using Sources of radioactive source, including the use of radioactive cesium Coblt Co⁶⁰ , sodium Na²² , strontium Sr⁹⁰ , Americium Am²⁴¹ and thallium Tl²⁰⁸ , Cs¹³⁷ . where were all these sources of radioactive effective in eliminating the swarming of *Proteus spp.* phenomenon ,and eliminate *Proteus spp.* with different doses and with three hours depending on each element and its activity .the Dose calculated by Kilo Gray (KGy) for each



element, Radioactive sources Sodium element Na^{22} used effectively (activity) 1 milli Curie emitting rays Gamma at dose of 1.533×10^{-10} , and Cesium Cs^{137} effectively 5 milli Curie emitting for beta rays at a dose of 0.3863×10^{-10} and emitting rays gamma at dose 0.1650×10^{-10} , and Cesium effectively 9 Milli Curie emitting for beta rays dose at 9.691×10^{-10} and emitting rays gamma dose 1.9737×10^{-10} , and Cobalt Co^{60} effectively 1 milli Curie emitting rays gamma at dose 1.2394×10^{-10} emitting to beta rays at dose 10.54×10^{-10} , and Strontium Sr^{90} effectively 9 milli Curie emitting for beta rays at a dose of 6.3×10^{-10} , also Strontinum effectively 1 milli Curie emitting for beta rays at dose 1.973×10^{-10} , and Americium Am^{241} effectively 10 milli Curie emitting alpha radiation at dose 14.157×10^{-10} and emitting gamma rays at a dose of 3.199×10^{-10} , and thalium Tl^{208} effectively 1 milli Curie emitting for beta rays at dose 12.39×10^{-10} , all doses of emitting radiation calculated for three hours.

The third way in purification are using Magnetic water that taken from Department of Physics with exposing distilled water to a Magnetic field 350 gauss for one hour after the disclosure of the surface intensity as a guide to determine the magnetization of water, and so it was invented two ways the first methods of Tube method with adding 10 ml, 15 ml again once of Magnetic water to 5 ml of the Nutrient broth. Another method is Agar method with adding 0.9 ml or 1ml of magnetic water to Nutrient agar. Where the use of Magnetic water in the elimination phenomenon swarming and eliminate the *Proteus spp.* and purifying isolates the Gram positive and Gram negative bacteria that isolated from people with tumors and cancers of Baghdad's hospitals. all methods by lasers, irradiation and with Magnetic water is



efficient in purifying bacterial species of Gram positive and Gram negative and elimination of *Proteus spp.* and Swarming phenomenon.

مميزات الطريقة الجديدة

تمتاز الطريقة الجديدة بالتكلفة الواطئة من حيث توفر هذه الأجهزة في أقسام الكليات وفي معظم الجامعات وخاصة أنه لا يوجد طريقة أو وسط خاص للقضاء على التلوث بهذه البكتيريا قياسا ببعض الأوساط عالية الثمن وخاصة أن البكتيريا مرافقة لعمل الباحث باستمرار ، وبما أنه أجهزة الليزر والمصادر المشعة والماء المغناطيسي متوفرة في قسم الفيزياء وصغيرة الحجم ويمكن نقلها من مكان الى اخر.

تمتاز جميع الطرق بكفاءة عالية من حيث القضاء على بكتيريا

P.aeruginosa وتنقية أنواع مختلفة من بكتيريا الموجبة والسالبة لصبغة كرام ومنها بكتيريا *baumannii Acinetobacter* و *Klebsiella pneumoniae* و *Escherichia coli* و *Serratia marcescens* و *Staphylococcus aureus* و *Staphylococcus epidermidis* و *Aeromonas hydrophilia* و *Pantoea sp.* و *Lactobacillus sp.* و *Morganella morganii* و *Salmonella sp.* و *Vibrio cholerae* و *Micrococcus sp.*

فتمتلك هذه الطرق كفاءة عالية في القضاء على التلوث.

تطبيقاته الطبية

من خلال الدراسة المستفيضة في مجال التنقية والقضاء على التلوث والتخلص من هذه الظاهرة السيئة بسبب تلوثها كثير من البحوث العلمية وأعطت نتائج خاطئة ، بحيث ممكن أن تستخدم جميع طرق التنقية بالليزر والأشعاع والماء المغناطيسي أعلاه في التنقية وخاصة في المجال التطبيقي البحثي حيث يمكن لهذه البكتيريا Swarming والقضاء على *Proteus spp.* أستعمالها كطريقة كفوءة للقضاء على بكتيريا الملوثة لأنواع مختلفة من البكتيريا وخاصة في مختبرات علوم الحياة ومختبرات المستشفيات ومختبرات الأحياء المجهرية ومختبرات التقنيات الأحيائية والمراكز البحثية والذي يؤثر على التشخيص في أغلب



الأمراض وبعض الفحوصات منها فحص الحساسية للمضادات وغيرها من الفحوصات من خلال تلوثها وبذلك يمكن استخدامها في المجال التطبيقي البحثي كطريقة للقضاء على هذه *Proteus spp* بكتريا البكتريا الملوثة المسببة خسائر كبيرة لأغلب طلاب الدراسات وخسائر كبيرة في التشخيص الصحيح للمرض في المستشفيات وبالتالي اعطاء نتائج خاطئة ، من أجل مساعدة طلاب علوم الحياة ومن أجل مساعدة العاملين في المختبرات والتدريسين ومن أجل التشخيص الصحيح للمرض من خلال القضاء على هذه البكتريا الملوثة لأنها تعطي نتائج خاطئة لأكثر الفحوصات وخاصة الفحوصات البايوكيميائية وفحص الحساسية للمضادات، لذلك يكون تطبيقه بأبتكار وأيجاد طرق جديدة يتم فيها القضاء على بكتريا من أجل تنقية العزلات البكتيرية الموجبة والسالبة *Swarming* والقضاء على ظاهرة *Proteus spp* لصبغة كرام وبقائها نقية دون تلوثها بهذه البكتريا الخطرة في المختبرات العلمية والبحثية في الجامعات والمستشفيات والمراكز البحثية . بحيث يمكن وضع هذه الأجهزة في المختبرات البحثية والمراكز البحثية ومختبرات المستشفيات وتعريض أنابيب الأختبار الحاوية على البكتريا الملوثة لهذه الأجهزة من الليزر والمصادر المشعة والماء المغنط وبالتالي يتم القضاء على التلوث الحاصل من قبل هذه البكتريا وخاصة أن هذه الأجهزة من الليزر والمصادر المشعة وجهاز الماء المغناطيسي صغيرة الحجم وواطئة التكلفة ولها كفاءة عالية ولها تأثير فعال في القضاء على التلوث وبوقت قليل . كذلك ممكن استخدام الماء يمكن إضافته لجميع الأوساط الزرعية ٧٢ ساعة. Supplement المغناطيسي كمكمل للأوساط



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براءة اختراع



The process of obtaining mulch from food waste with 30 to 45% a ratio of organic matter

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Degree: PhD - Inventor

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Abstract

I am the inventor of Mahdi Haj Hosseini. I have succeeded in producing a new material from food waste in a new biological process. This invention won the silver model of the International Federation of Inventors Associations (IFIA) in 2022. In this process, by producing the extracellular products of microbial consortia and absorbing them by the adsorbent, we succeeded in producing a material called food waste mulch, which is a type of biological cement. At the same time, this substance stabilizes the soil by producing stable aggregates and absorbing carbon in the soil and reducing greenhouse gases. This process is



environmentally friendly. This process is very different from the composting process. It can process food waste within 48 hours. This substance can reduce the quantitative and qualitative soil erosion in desert areas due to dust storms up to a speed of one hundred kilometers per hour by more than 95%. This substance fights desertification. In this process, mulch turns into soil at the end of its life. By producing this substance, we can produce biological fertilizers for plant growth. Therefore, this process and its product can cause sustainable development of the environment, soil stabilization and desertification, and solve the problem of food waste in urban communities and add economic value.

براءة اختراع



جهاز مسعف (جهاز الطوارئ في المركبات)

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الخلاصة

يعمل هذا الجهاز فور وقوع الحادث المروري مباشرة على الإتصال بالسائق و إرسال رسائل نصية آليا من المركبة مدعومة برابط موقع الحادث إلى فرق الطوارئ المختصة و إلى أحد أقارب السائق أيضا. حيث تحتوي هذه الرسائل على بيانات المركبة وتحديد زمن وقوع الحادث وغيرها من البيانات الضرورية. كما أن الجهاز يحتوي على مجموعة أجهزة إنقاذ ذكية لمختلف أنواع الحالات الطارئة.

يساهم في الخفض والتقليل من ضحايا الحوادث المرورية بصورة كبيرة وتسريع زمن الاستجابة للحوادث المرورية للتواصل السريع مع فرق الطوارئ الذي يتيح تلقي معلومات عن الحادث بشكل تلقائي ودقيق والمساهمة في تقليص مستوى الخطأ البشري في تحديد موقع الحادث، وتحقيق أعلى مستوى من التكامل في الاستجابة لحالات الطوارئ.

جهاز مسعف يتناسب مع كل موديلات السيارات الجديدة والقديمة و في جميع دول العالم دون استثناء.



Genetic Engineering of mutant *sak* enhanced by Cs¹³⁷ radioactive sources express for mutant staphylokinase by M13 cloning vector transformed into *E. coli* DH5 α and its medical applications for thrombosis therapy

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Abstract

Objective: The aim of this research is to study the increase production of mutant thrombolytic enzyme after genetic engineering of the encoded *sak* gene into radioactive mutant staphylokinase (thrombolytic enzyme).

Background: Genetic engineering, recombinant DNA technology and biotechnology are used to reveal the complex processes of how genes are inherited and expressed, to provide better understanding and effective treatment for various diseases in genetic disorders and to generate economic benefits to improve of efficient production of valuable biopharmaceuticals.



Study design: Cross-Sectional study design in descriptive study design and Case- Control in analytic study design.

Methodology: The *sak* gene was extracted from the mutated *staphylococcus aureus* bacteria by radiation and the amplified into PCR (polymerase chain reaction) was carried out for it, then the product of the mutant *sak* gene was genetically engineered into M13 cloning vector and using the competent bacterial cells *E. coli* DH5 α . The mutant *sak* was transformed inside *E. coli* DH5 α bacteria, then the production of staphylokinase (thrombolytic enzyme) was examined on a plasma agar medium containing plasma.

Results and discussions: and it was found that the enzyme was more productive than before compared with control, that is, the process of genetic engineering (cloning) was useful by dissolve clot with seconds.



Hydropneumatic Flushing System

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Abstract

Leaks in the flushing system are a widespread phenomenon in households and communal toilets. These leaks are caused by failures due to mishandling and frequent use. Leaks generate water loss and cause high maintenance costs. To solve this problem, we create the Hydropneumatic Flushing System.

It is economic water flush, that does not leak and that withstands frequent use. It has this characteristics: - It was remote controllable, so, no direct contact between the user and the flushing device which greatly reduces breakdown due to mishandling; - It eliminates bad odors and no noise when filling the tank - The volume of water discharged is controllable by the user; - Very low



maintenance. - Adapts all type of bowls. Our water flush has two configuration: a collective configuration intended to public toilet and individual configuration intended to household and coffee.

- The collective configuration consists of a single hydropneumatic tank that supplies a series of bowls.
- The Individual configuration consists of a single hydropneumatic tank which feeds a single bowl.

The collective configuration is patented and registered to INNORPI in 01/08/2012 (Patent n°21849) and published in the web site of the WIPO (World Intellectual Property Organization) under the number : WO/2012/071022.

This configuration was installed in many factories and it gave goods results.

The individual configuration is patented and registered to INNORPI as the "hydropneumatic flushing system with diaphragm" in 2 March 2015 (Patent n° 24340)

For this configuration a prototype has been designed and produced and the tests carried out are very satisfactory.



The use of antigens of *Klebsiella pneumonia* as a immune catalyzer against infection by *Entamoeba histolytica*

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Abstract

This study was established for estimate the immune response in Neusland albino rabbits (male) which enhanced by inoculation with extraction of (O-Antigen) outer membrane proteins (OMPs) and capsular polysaccharide (K-Antigen) from *Klebsiella pneumoniae* against the infection by *Entamoeba histolytica* depending on several criteria, including studying the changes in the variables of cytokines levels like INF-Y ,IL-10 and IL-12 and phagocytosis coefficient , B, T cells PMNs and lymphocytes cell life span, T and B rossite formation test, the mitotic index factor for bone marrow cell and blood profile (C.B.P), and we reached the following results:



The concentration rates of each IL-10, IL-12 and INF- γ in serum after the immunization with (O), and (K) antigens and control group and when they were inoculated by the parasite were elevated with different significant value, and they remarked the increased level of lymphocytes and polymorph nucleus cells after immunization with (O), and (K) antigens and decreased after inoculation with *E. histolytica*

And the phagocytosis coefficient, T, B resetting configuration rate, arthus and delay type rates and bone marrow mitotic index elevated after the immunization with (O), and (K) antigens and decrease after parasite infection Elevation in total WBC count rates and the differential count rate for granulocytes, lymphocytes and monocyte blood of experimented animal were decreased after immunization O and K antigen and WBC count were decreased after parasite infection.

The current study showed the possibility of using *Klebsiella pneumoniae* both antigens as immunological modificatory against amoebic dysentery infection in white rabbits.



براءة اختراع



**Water_electricity Energy System (Système Énergie d'eau
Électricité)**

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Abstract

The phenomenon of the Elhambra palace a secret and a challenge for all scientific researchers in order to discover the energy and the mysterious mechanism of rising to an important height. Following certain tests and experiments, we succeeded in the mechanism of this secret. From there, we invented a project: a water lifting system inspired by the technology used by the Alhambra palace for irrigation without using other energy (AUTONOMY). Beyond that, we invented a project that consists of raising water to a significant



height without any forcing system (autonomous) this system which produces electricity by using the descent of the water. Indeed, when producing hydroelectricity, water is returned to the turbine installed lower (Departure) which can produce electricity can go up to the maximum and quantities (Kw) . as well as the system can be operated for the transfer and pumping of water naturally and without any external energy consumption and subsequently there is no need for the pumping stations mentioned in the canals.

Résumé du projet: le phénomène du palais Elhambra un secret et un challenge pour tous chercheurs scientifique à fin de découvrir l'énergie et le mécanisme mystérieux de relever à une hauteur important. suite à certains essais et expériences, on a réussi à le mécanisme de ce secret .Delà, on a inventé un projet : un système de relevage d'eau inspiré de la technologie utilisée par le palais L'Alhambra pour l'irrigation sans utilisation d'autres énergie (AUTONOMIE) ce système qui produit de l'électricité en utilisant la redescente de l'eau Delà, on a inventé un projet qui consiste à relever de l'eau à une hauteur important sans aucun système de forçage (autonome En effet, quand à la production de l'électricité hydrolique on fait retourner de l'eau jusqu'à la turbine installée plus bas (Départ).



براءة اختراع



DeafVision

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Abstract

The DeafVision project is being developed depending on the branches of "A.I", therefore, it performs functions and features to help people with hearing disabilities; by converting the sounds and speech surrounding the deaf person either to texts written in Arabic or alerts if needed, the data mentioned will appear to users via an augmented reality glasses connected to a mobile phone application, considering it the "final form of the project", so that deaf people will be able to better understand and interact with their surroundings.

The current prototype is a deep learning algorithm, it worked successfully and it is capable of analyzing ten different sounds with relatively high accuracy.



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براءة اختراع



Production Omega-3 with Optimal Lipidic Prevention Score (TN-GR-FR-UK-US-JP) Patents

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By 2030, nearly 23.6 million people will die from cardiovascular disease. According the World Health Organization (WHO), these conditions will remain the first cause of human death. In Africa, the prevalence of arterial hypertension and its progressive accidents rheumatic heart disease and myocardial infarction is estimated at 25% on average in the population aged over 18 years.

The seriousness and the frequency of cardiovascular diseases require to prevent them and to treat them at the same time. Prevention is done by controlling cardiovascular risk factors and by introducing foods rich in polyunsaturated fatty acids. It can be replaced by the consumption of omega-3-rich dietary supplements provided that they are correctly balanced in fatty acids as is the case of the product object of this innovation whose patentability



(novelty, inventive activity and possibility of industrial application) was confirmed in the international research report and the reasoned written opinion prepared by the examiners of the World Intellectual Property Organization (WIPO). In fact, to obtain products correctly balanced in fatty acids, all the suppliers of marine oils and food supplements rich in omega3 are based on the omega3 / omega6 ratio. This ancient concept is very controversial by scientists from the point of view of real effectiveness against bad cholesterol. This invention is based on the Lipid Prevention Score (LPS) which was tested through clinical studies conducting on 123 patients. The results showed that when LPS is at its optimal value, the preventive effect against cardiovascular disease becomes 30% more significant. The examiners of European Patent Office (EPO) and those of Japanese Patent Office (JPO) were also confirmed the patentability of this invention, therefore:

- A European patent was granted on November 2017 under number 2950667. Thereafter, It was validated in 2018 in 6 countries including Spain – United Kingdom - France - Germany - Turkey & Italy
- A Japanese Patent was granted on May 10, 2019.

This innovation can be applied to any marine oil (fish oil of all species, Krill oil, microalgae oil, etc.) It can lead to several other inventions by studying the effect of LPS on other diseases such as diabetes, Alzheimer's, Parkinson). This invention has won several international awards such as:

- 1st prize at the Middle East International Invention Fair (Kuwait City, January, 2017)
- Gold medal at the Istanbul International Invention Fair (March, 2017)



- Gold medal of the international fair of inventions of Geneva (April, 2017)
- Gold medal of the International Invention Innovation Competition in Canada (Sep, 2018)
- Gold medal at the Istanbul International Invention Fair (Sep, 2018)

This invention is the basis of an innovative project included in the blue circular economy. This is the recycling waste from bluefin tuna fattening which aims, among other things, to produce:

- GELATINE: for agrifood (Halal label) - COLAGENE: for cosmetics and Healthcare
- SURIMI-BASE production for intermediate food products
- REFINED and STABILIZED PULP for pet foods, pasta feed, fish sticks, fish's balls, cold textured reconstituted steaks.



Nanotechnology applications in medicine

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Abstract

Applications for nanotechnology in medicine include imaging, diagnosis, or the delivery of drugs that will help medical professionals treat various diseases, in addition to targeted delivery of therapeutics, nanotechnology can also be used to release drugs in a controlled manner to improved outcomes for patients due to a reduction in toxicity, more efficient delivery of therapeutic molecules, and a longer lifetime of drugs within the body. Novel nanodrugs as pharmacological therapies (AgNPs, AuNps.ZnONPs, MgOHNPs, CuONPs and MgONPs) for Antimicrobial activity such as Antibiotics to prevent the widespread among multidrug resistant (MDR) for different strain of positive and negative bacterial



strains as well as antifungal, antiviral and antiparasitic effect and other side of the research for using different nanoparticles and different phytosomes and liposomes against the cancerous different cell lines for oral, stomach, Colone and breast cancer, and then evaluated the efficiency of synthesized nanoparticles on proliferation and apoptosis markers , in addition to the generation of reactive oxygen species (ROS) and its potential, moreover morphological changes in the cells (damage to DNA incurred due to cell lysis) and loss of mitochondrial membrane potential in target cancerous cells without harm for healthy cells.

Keywords: Nanodrugs, nanoparticles, antimicrobial activity, Pharmacological therapy antitumoral and anticancer.



Design of low voltage integrated circuits

Fadi R. Shahroury

Nationality: Jordanian

Degree: Dr. Fadi R. Shahroury: Associate professor in electronics engineering, King Abdullah II School of Engineering Academic Department Head at Princess Sumaya University for Technology, Amman, Jordan.

Abstract

My research is focused on the area of design of CMOS front-end transceivers for RFID/WSN, the design of low-power CMOS integrated analog building blocks, the design of rapid shutdown front-end receivers for roof PV systems and the design of White LED driver circuitry for smart portable devices. However, my research is not limited to the electronics field; In 2020, when I became the academic department head, I became closer to the students and more aware of their problems, especially that was during the Coved-19 pandemic, I developed an interest in the e-learning filed and wrote a couple of papers in that domain.



Food electronic processing dryer

WAM ELVIS MBVIUGEH

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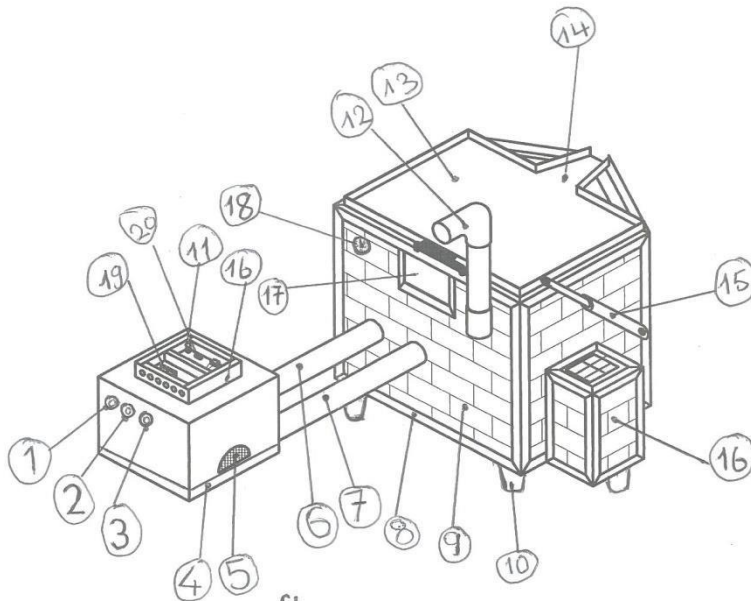
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Abstract

The Food electronic processing dryer unlike other dryers, is a scientific contribution which is purely African; in that it is made out of local materials such as: metal, bricks, wood, chemical composition of clay soil and electronic components. It uses electrical energy which is transformed into thermal energy; in the presence of a catalyst (ecological coal), that helps to facilitate the process for work done. This creation will help farmers in Cameroon and beyond, to better preserve cocoa in order to improve on their economic conditions and social lives. What is premium to this concept is that, the cost of running this machine is cheaper; because the induction motor is connected through a rectification circuit which drops the consumption rate of the motor with the possibilities of mounting the engine with a D.C (Direct current) motor of 12V-24V. A careful study and research has been carried out by the Author through print journals (Cameroon business for today), the wood workers pocket book by Charles Hay-ward for the selection of good wood to build-up the engine of this invention. The study of thermodynamics, Observation and

experimental nature influence this creation in that; I grew up and met my father as a cocoa producer.



“Waste plastic recycling plant” is a concept and formula in the technological world; aimed at transforming waste plastic and metals into useful products and used as an apparatus for fast cooking and to facilitate the cracking of stones for



masonry works. This creation will greatly help for the protection of the environment; for other generations and for substantial agriculture and to improve on soil fertility against famine. The Author laid down some principles which richly increased the performance of the invention. The study of thermodynamics, observation and experiments with the ancient style forging apparatus which in my mother's tongue is called "ALAM".

The study of electronic components and telemecanique control systems helped the Author to design a rectifier circuit on the control panel, which is the magical power to cut down the consumption of the machine during operation; That is from 220v to 12v – 24v and permits the plant to be able to operate with solar energy, cells and with less consumption.





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براءة اختراع



OCCLUSAL CANT IDENTIFYING TOOL

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Abstract

Some patients suffer from a tilt in the upper jaw and dentition on the transverse plane (Occlusal Cant). Basic clinical methods are available to identify this discrepancy, such as a wooden tongue depressor tool, however, without specifying the degree of tilt accurately, which makes clinicians resort to plain radiographs or more sophisticated computed tomography scans to determine the degree of tilt in the occlusal plain in an accurate and detailed manner.



The presented occlusal cant identifying tool provides an accurate and practical means of calculating the degree of occlusal tilt in an easy and safe manner without subjecting the patient to ionizing radiations. This tool can measure the occlusal tilt in relation to the true horizontal plane without getting affected by any sort of facial asymmetry.

The tool will be stabilized on the patients' ears via the adjustable side arms patient is instructed to bite on the bite plate, and if occlusal canting or tilt is present, the direction and the degree of canting will be quantified by the rotation of the protractor.

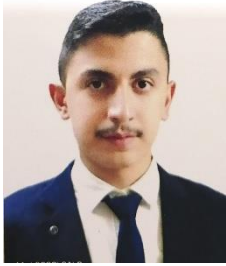
This instrument is used universally in clinical examination and is appropriate for all patients. The tool will be stabilized on the patients' ears via the adjustable side arms, and the bite plate will be placed on the occlusal surfaces of the upper teeth while making sure that the horizontal portion remains parallel (to the true horizontal plane) by using the spirit level attached to it. In the case of an occlusal tilt, the degree of inclination will be determined and calculated using a protractor. Accordingly, clinicians involved in craniofacial care will accurately assess the direction and degree of inclination at that early stage of the clinical examination without necessarily requesting x-ray or CT scans, which would subject the patient to ionizing radiation, complicating the examination process, and adding burdens on healthcare services.



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براءة اختراع



Automatic door handle sterilization device that uses solar energy

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Abstract

When the door is closed, a complete contact occurs in the mechanical switch, which leads to the closure of the electrical circuit and the passage of electric current from the battery charged by the solar cell to the pump, but the passage of the electric current is obstructed by an automatic relay that regulates the passage of current according to the settings set on it, and the spraying process occurs, which leads To the spread of sterilization liquid over the entire surface of the handle, thus sterilizing the handle completely and eliminating all viruses and germs on the handle. The effectiveness of this device lies in the possibility of using it in places of worship and official departments, taking advantage of renewable solar energy on the one hand, its ease of use and its distance from software complexity on the other hand.



براءة اختراع



Preparation of a new culture medium to stimulate increased production of Staphylokinase produced from *Staphylococcus aureus* by using Acridine Orange(AO).

أسم الوسط الزراعي الجديد

Nebras Increase Production Staphylokinase Acridine Orange Agar

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Abstract



Preparation of a new culture medium to stimulate increased production of Staphylokinase produced from *Staphylococcus aureus* by Acridine Orange(AO).

The study design of cases are Cross-sectional study that descriptive study by internal comparison of 500 isolates collected from different provenance of human infections including 280(56%) from tonsils , 100(20%) nose, 40(8%) tumors, 17(3.4%) urine, 27(5.4%) skin and 36(7.2%) blood, the isolation and identification achieved by using Vitek2-GP and Genotypic detection PCR to confirmative identification of *S.aureus* isolated from tumors.

The results of growth on the new cultural medium when added Acridine Orange(AO) showed there are growth when added 10 g to new culture medium, the growth of bacteria on new culture medium changed the color of bacteria different from the original of *S.aureus* become very dark and dark green color, also lost its blood hemolysis compared with the original became non hemolysis after growing on the new culture medium, either antibiotics susceptibility test work after growing on the new culture medium that it became sensitive to Vancomycin, Methicillin, Imipenem, Erythromycin and Oxacillin compared with the original was resistant. The growth on new culture medium it lost resistance to antibiotics and lost the production of the hemolytic enzyme(hemolysis).

The test for the production of the Staphylokinase (Thrombolytic enzyme) on the plasma agar and milk agar medium, it was turn off overproduction to Staphylokinase when grown on new culture medium that Acridine Orange(AO) therefore turn off from harmful bacteria into non-harmful bacteris with



overproduction of staphylokinase when added the concentrations 10 gm but no growth when added 20g, 30 g. The bacterium also examined on the new culture medium for having the *Sak* gene that encoding for Staphylokinase (Fibrinolytic enzyme), the results grant positive result for possess *sak* gene that encoded for Staphylokinase.



براءة اختراع

A device for adjusting angles, straightness, parallelism, and measuring the ratio of different angles of sides on different dimensions using laser light

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Abstract

A device designed in an engineering way to serve many purposes in more than one field, and the device is used to set correct and accurate angles at all degrees on any surface, whatever its degree of inclination, and to measure the dents on different dimensions using laser light, a ruler and a lens, and to adjust the assembly of two blocks together using laser light, adjusting rules Machines, control the trajectory of the overhead cranes and yards, and the ruler is used to measure heights. Shipbuilding, electrical, machinery, mechanical installations and ship carpentry workshops also benefit from this device. It is also used to review the angles and straightnesses of workshops, buildings and piers, and in the design of roads and bridges. All parts of the device are not harmful to the environment. It does not cause pollution.



Non-conventional sources of proteins for food and feed: Future trends for food security

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Abstract

The project that we started late 2018 consists on the development of an intensive breeding system for an edible specie of insects to initiate the basics of tomorrow's food and feed. Behind this idea there are economic reasons since world food production will have to increase by 70% and world protein consumption will double by 2050. Furthermore, with the increase in the price of fishmeal and soya, which has more than tripled in 20 years, new farming



models both ecologically virtuous and economically viable must be developed. Such project is part of an urgent need to find alternative solutions to the challenges we just quoted and is a radical, sustainable and innovative solution. Indeed, thanks to an innovative system of vertical breeding in closed buildings, it is possible to generate large quantities of insects and transform them into raw materials (mainly proteins, oil and biofertilizer) of very high quality in order to create an alternative to conventional production, to feed people, animals and soil. The innovation in this work is that we perfectly master the substrate on which the larvae feed as well as all the conditions required for their intensive breeding and this by valorization of agricultural by-products and co-products (bread, wheat bran, waste cereals...). Thus, the main novelties and solutions provided by this project are: a very low ecological impact of insect farming (no waste generated and negative carbon footprint); Insect larvae have particularly interesting nutritional profiles validated by the FAO to fight against malnutrition; The larval oil rich in essential fatty acids, vitamins, iron and minerals is well suited to the cosmetics industry and the droppings (frass) can be used as a soil fertilizer. In addition, the zootechnical and environmental interest of insect proteins and fats for the feed of farm animals has been well validated by the FAO since 2013.

CGAR of 6.1% in this new market is very encouraging (from \$407 million in 2018 to \$1.1 billion in 2024, according to FAO). Currently, derisory quantities are produced since the world production of insect meal will have to reach 1.1 million tons in 2030, our market shares are real. Additionally, in January 2021, the European Food Safety Authority (EFSA) concluded that mealworm larvae are safe to eat "either as a dried whole insect or in powder form" or be



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integrated into pasta, nutritional bars, biscuits, etc... and currently authorizes the use of certain species of insects and the products resulting from their breeding in the food of fish, poultry and in human food.



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براءة اختراع



Mechanisms for controlling life, non-commercial and commercial transactions, both cyclical and non-periodic, in the Holy Qur'an

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Abstract

This discovery represents the environment that provides the satisfaction of physiological and other needs through exchange, that is, through money in exchange for a specific commodity or something in exchange for another equivalent to its price or agreed upon in a way that guarantees the rights of all parties because it contains the conditions leading to that. It is used in all fields based on immediate and deferred exchange transactions in a way that secures the necessities of life continuity as well as its prosperity by benefiting from its bliss and developing it through that. As for the target group, they are all human



beings of different genders, races and affiliations, as well as their living capabilities The invention detected and treated (536,870,912) cases.

2- The mechanism of setting permission to enter houses and their rooms, both inhabited and uninhabited, in the Holy Qur'an

Summary :This discovery represents the special social environment (the family), which leads to the preservation of privacy and the sanctity of transgressing it according to the requirements of that in specific times and places and for certain people, and then reassurance of the soul and ensuring its comfort in a way that restores its necessary effectiveness for its private and public needs. And the scope of its use in the private space of the family framework and what one of them owns from it. As for the target group, they are all human beings of different races, races and affiliations for the benefit of all of them as it preserves personal privacy and private money as well as personal freedoms. The invention detected and treated (3,458,764,513,837,318,145) cases.

3- Mechanisms for controlling mockery and bullying The mocker, the mocked, the punishment in the divine discourse

Summary : This discovery represents the communicative environment between individuals as well as societies of different affiliations, orientations, and work activity because it is based on actual verbal formulas in dealing with each other and its psychological and estimation repercussions as well as the spatial status as it involves mockery and mockery ... etc. It is used in all areas of communication and in various cases, either to rely on the right or to avoid the



wrong . As for the target group, private and governmental institutions, as it represents the application of the necessary penalties and according to the type of mockery, and therefore it is the field of benefiting all human beings of different races, races and affiliations, due to the consideration of their psychological entity and their private and public social status. The invention detected and treated (1,125,899,906,842,625) cases.

4- Quranic functions with a series of equations in an ordinal text showing the financial share of men and women

Summary : This discovery represents the environment of money belonging to those who fulfilled their term in life to be entitled to those who are related to them in certain proportions according to the relationship of kinship and according to the requirements of each of them, and then satisfy their physiological and developmental needs...etc. It is used in cases based on the distribution of a certain estate from a certain to certain persons. As for the target group, they are the family members of the deceased, as well as those who are attached to him with various types or the like. The invention detected and treated (2,147,483,648) cases.



براءة اختراع



ImmunoDefender

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Abstract

Essential oils have been known long to have antiviral agents against several pathogenic viruses.

During the global pandemic of severe acute respiratory syndrome coronavirus 2 (Sars-Cov-2), the necessary time to place an effective and safe product on the market, as fast as the virus is spreading, is very long. Consequently, several studies based on Essential Oils (EO) pharmacological substances have done with the objective of reducing the risk of Sars-Cov-2 infection and palliate the



Coronavirus disease 2019 (COVID-19) symptoms. Those EOs shown an enormous effectiveness as SARS-Cov-2 inhibitor compounds.

The proposed *herbal medicinal* product is about a mixture of essential oils proposed to have activity against the 2019 severe acute respiratory syndrome Coronavirus 2 (SARS-Cov-2). The mixed solution concerns a stimulant composed of an average dose of one gram distributed by weight of small optimal doses of essential oils in a natural organic mixing oil to facilitate their absorption. More than 20 ingredients accurately distributed based on relevant mathematical matrix pertinently established. Interestingly, bioactive compounds were been accurately selected based on a relevant synergic action mode against specific catalytic active sites of crucial protein mainly involved in the SARS-cov2 infection pathway. The Suggested components mainly possess antiviral, anti-inflammatory, and immune-stimulant properties and actions.

The study has based on *In-silico* qualitative structural investigation, essential oil component's interaction with intra and extracellular key SARS-cov2 protein targets, interestingly main EO active components interact with a high affinity and block the catalytic sites of the non-structural protein Main Protease playing a central role in SARS-Cov2 pathogenesis and virus transmission pathways.

According to the stated objective, the appropriate ingredients rates and distribution has studied within the limits of acceptable daily intake (ADI) without exceeding toxicity thresholds. Knowing that, component doses were proposed based on pharmacological toxicity report.



The related patent has deposited in the Tunisian National Institute for Standardization and Industrial Property "INNORPI" under the number: 2020/0211 and the related label "ImmunoDefender®" has deposited under the number TN/T/2020/2174 under, both in Tunis on November 03rd, 2020. Moreover the related WIPO/PCT international publication has done on May 12th, 2022 under the number: WO 2022/097042A1.

Key words: Essential oils (EO), Herbal medicinal product, SARS-Cov2, Main-Protease, antiviral, immune-stimulant.



The Oxy Water Tank Cooler Cover Device

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Abstract

In summer season, temperatures rise most of the time between 45 ° - 50° or more in some areas of the GCC and Middle East countries, which leads the water tank temperature to rise between 60 ° - 70° inside water tank that may become impossible to use, especially around noon time also lead many burring incident specially for children. Many water tank cooler devices in market have different problems design perspective health impact of the product. I have develop a product to solve that issues focus and keep maintaining the Quality, Health, Environment, Safty and efficiency of cooling the water tank.

The Water Tank Cooler Cover Device works to cool water tanks by extracting the outside air strongly into the tank, through the 2 inlet air on both sides of the device by (Duel Centrifugal with Nano Technology). Then moving the water tank and ventilate it & push the hot air inside the tank to outside through 2



outlet air the lower part of the device starts to push water steam through holes designed to cycle air around the product to reduce the heat around the device, to create cool environment the 2 inlet air continue extracting the air around the device much cooler with excite of steam and hot air mixture.

The cold air falls onto the surface of the water tank to cool it, and thus the density of the cold water rises and become heavier than the density of the hot water, then the hot water rises to the top to be cooled in the same way and so on until all water in the tank is cooled.

A sensor has been installed to alert with the water tank temperature if it falls below the temperature that was previously determined by the water temperature controller, then (Duel Centrifugal with Nano Technology) starts to work automatically again to reach the previously set temperature again and so on. The device is made of Acrylonitrile Butadiene Styrene (ABS), which is an environmentally friendly material that gives the device strength, durability and long life. In addition the designed to be easy plug and play with low power consumption which is less than 110 watt also support working with solar power system. Also device support smart phone that easy control water temperature using Wifi technology.



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