

The Role of Malaysian Patent Attorneys in Innovation and Transfer of Technology

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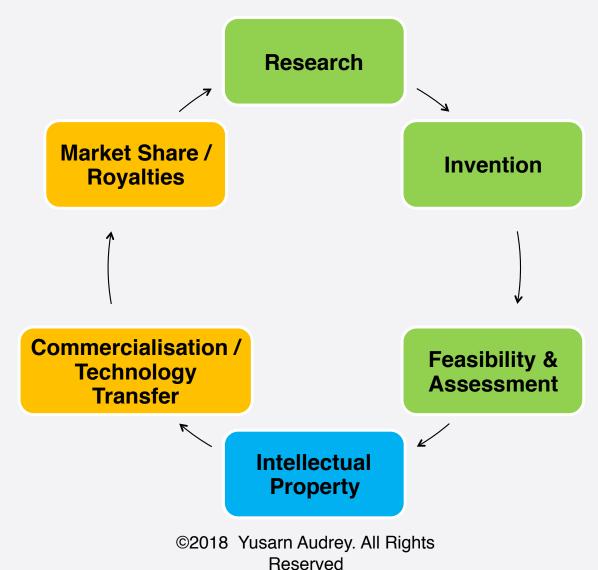


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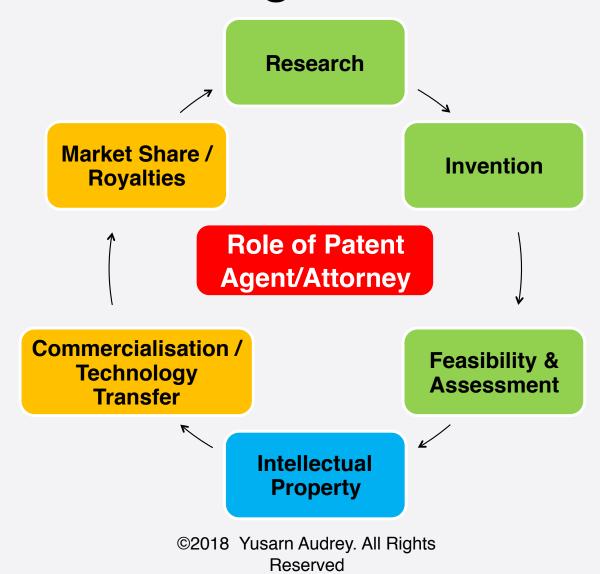


Cycle of Innovation



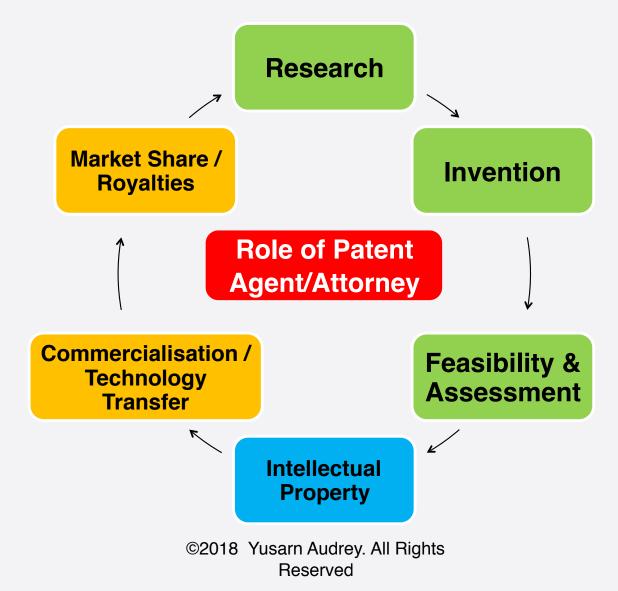


Role of Patent Agent



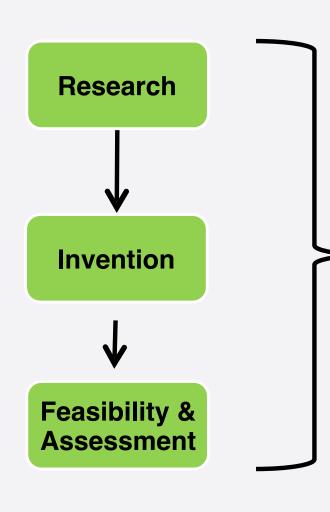


Role of Patent Agent (Upstream Activities)





Role of Patent Agent (Upstream Activities)



IP assessment tailored for your organization to foster innovation and help uncover the strategic IP issues that you need to pay attention to in your organization, and craft an IP management action plan



IP Assessment & Education

Invention, can it be patented? Patentability search & assessment

Generic product? Patent watch

New product development?

Freedom-to-operate
search & assessment

Industry trend?
Industry survey
Subject-matter search

What information & document needed?
Invention Disclosure Form Laboratory Notebook

What is the existing problem & market demand?

Problem-solution approach (Inventiveness)

Commercialisation potential

How to improve my invention/technology?
Continue to Innovate
Research collaboration
Technology transfer



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Teoh Siang Teik

Harnessing The Power of the Sun through Technology



heater systems

Microsola

Problem in the conventional solar water

Teoh, who earned his Masters from University of Edinburgh, Scotland proceeded to spend time researching and dwelling on the flow analysis of the conventional solar heater. The 20 tubes going into one storage tank was like an ill-planed traffic system causing bottleneck constriction on the flow diameter. As Thermosyphon flow slows down, a hot spot develops in the panel and heat is lost through the glass resulting in less water being collected in the tank.

The bottleneck problem seemed further aggravated by hot water stagnation due to

Problem-solution approach

"Problem in the conventional solar water heater system... ended up designing a winner in solar technology"



the horizontal angle of the upper manifold. Due to the hotspot which developed in the panel, the stagnant water gets hotter and hotter but heat is re-radiated back through the glass. This heat loss should have been collected safely in the insulated hot water tank. After pondering on all these problems and more, Teoh set to work on his design that would better the situations, but eventually he ended up designing a winner in solar technology. He concluded that the end result of his invention should retain heat for longer periods, provide highest temperature and high volumes of hot water.

> Strategic IP **Protection** "The product is patented worldwide..."



The Microsolar Coxial Multivalve M80VTHE 356 litres is the world's highest efficiency thermosyphon solar water heater, operating fully without electricity, capable of reaching a maximum temperature of 100 degrees Celsius within six hours of full sunshine. In some countries, such as in Kenva, Microsolar is used for water pasteurization too.

International Recognitions

1997 - Patented worldwide through The World Intellectual Property Organisation

1999 — TIME Magazine featured Teoh as one of the Heroes for the Planet/Design in its March issue that year.

Microsolar is distributed and sold in many

countries worldwide. Teoh is appreciative of Matrade for undertaking activities to promote the product to overseas markets.

The product is patented worldwide and is in use in Malaysia, the USA, UK, New Zealand, Indonesia, Philippines, Singapore, India, Nepal, the Middle East, the Caribbeans, Kenya, Tanzania and Maldives.

It achieved world levels of excellence in performance in the mid-winter testing in Pewaukee, Wisconsin USA in January 2004

FOR THE PLANET | DESIGN

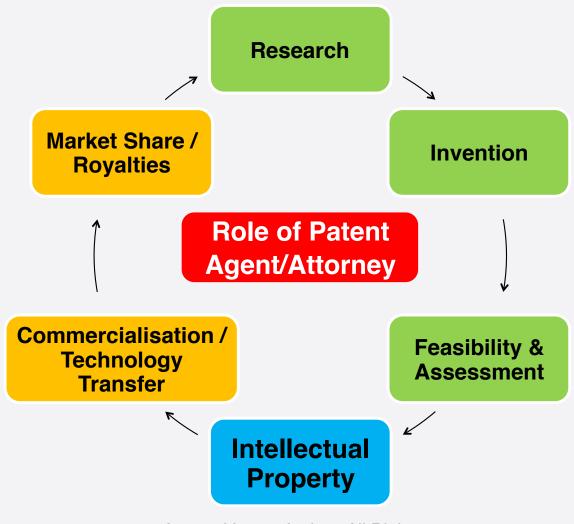
Powered by the Sun: Hot Water on the Cheap

Sourced: http://www.mpc.gov.my/wp-content/uploads/2016/04/ Malaysia-Innovators-Journey-of-Creativity-to-Reality.pdf



Role of Patent Agent

(Intellectual Property Registration)





Role of Patent Agent

(Intellectual Property Registration)

Drafting of Specification

(Title, Description, Claims, Abstract, Drawings)

Filing of Patent Application(s)

(Conventional filing, International / PCT filing)

Prosecution

(Formalities requirement, Substantive examination, Responding to Office Actions)

Grant & Renewal

(Certificate of Grant, Annuity renewal)

Strategic IP Audit, Protection & Management

Reserved

(IP protection is territorial and it requires years of efforts/resources to obtain a registration. Like any other important business asset, IP needs to be audited and managed strategically in accordance to your organization strategy to maintain/achieve competitive advantage) ©2018 Yusarn Augrey. All Rights



Strategic IP Audit, Protection & Management

Good knowledge of what IP assets you own can significant increase the value of your organization as investors would value an organization based on its expectations of future profits, vis-àvis the commercialisation of IP rights

Good knowledge of your IP and its value will assist you in deciding which type of IP rights to acquire and maintain, and how best to manage your IP assets



A well-structured IP portfolio determines the credit worthiness of your organization and may be used as collateral for fund raising

An IP audit will assist you in determining the value of your own IP which enable you to obtain maximum benefit and increase your cash flow by licensing out IP rights to a third party. Increase cash flow, increase revenue, increase market value of your organization

A well-structured IP portfolio would help you **identify obsolete IP assets** which enable you to **cutdown IP asset maintenance costs** and lead to a reduction in costs



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Robest Yong

A SFRIAL INNOPRENEUR



omeone once told me that my invention was either copied or it wouldn't work," Robest Yong said calmly in an exclusive interview.

"They said if it could be done, the Americans or the Japanese would have done it by then," he continued. Well. Pobest then went on to

Patent Filing

"if the idea carried a commercial value, it is always best to file for a patent"

> Continue to **Innovate** "Creativity knows no boundaries"



The early v Robest Yo Penang ar at the Me Robest form

ised to



school was not surprisingly Industrial Art.

Robest had no role models to emulate. "I think my success as an inventor was inspired by my own interest in innovations and creativity". Robest lives by the saying "Be realistic or you will die a pauper".

As a dynamic, self-challenging young man, Robest grew to understand that an invention



one of the most profilic local inventors today

Challenging moments

Lack of money to realize his dream was the biggest challenge back in 1994, when there were no grants for independant inventors. Inventina was more like an expensive. impractical hobby, hence not much attention was paid to it. "Patenting itself carried a cost of over RM8000, so the most exasperating question I had to ask myself time and again was, to patent, or not to patent?" cited Robest. His belief, however, till this very day, is that if the idea carried a commercial value it is always best to file for a patent. "Inventors and innovators today are a lucky bunch! The Government has many grants worth billions for them to apply for."

Stamping his mark worldwide

The Polyclone rubber stamp machine is Robest's proudest achievement and rightly so as it has revolutionized the rubber stamp industry of the world! With this invention, it takes only five minutes to make rubber stamps when previously one had to order, days or weeks in advanced. With this major breakthrough. Robest knew his dreams has taken him to a

The rubber stamp machine eliminates photographic using any computer printed designs and plain tap water! device allows for unlimited creativity by the user and can be also utilized for printing headings and as a letter press machine too with superb end

Today, Robest's rubber stamp machine is sold and used Japan, Korea, Russia, South Africa Papua New Guinea Indonesia and Thailand, In fact, being one of the most user-friendly inventions ever. it would not be surprising to

find this machine in many more countries

worldwide!

Creativity knows no boundaries

Since the invention of the Polyclone rubber stamp machine, Robest proceeded to embark in a series of other innovations. He turned his creativity and innovating skills to three automobile gadgets, all of which were proudly displayed at the MINDEX/INOTEX 1996. The inventions were:

Carver-UP car mat cover: Robest's answer





his profits

to unsightly car mats. In this invention, he created "origami" out of rubber mats in his successful effort to conceal dirt from the car-

 ABL Automatic car-braking system: This indispensable safety invention allows the vehicle to remain stationary even when the driver's foot has been released from the

 Electronic road sign reader: A safety device reduce the dangers of motorists failing to see road signs due to poor visibility. The device

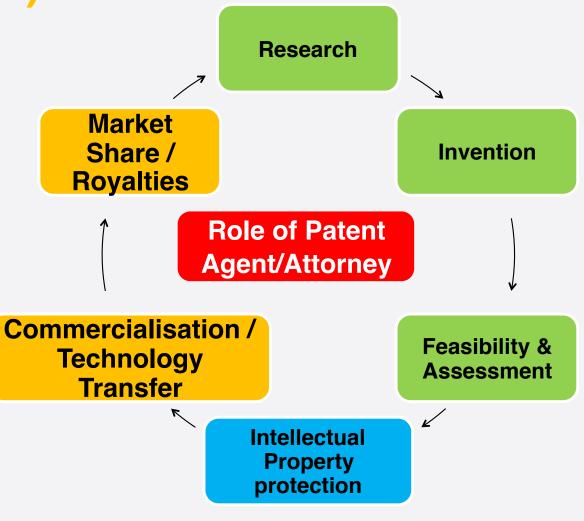
Sourced: http://www.mpc.gov.my/wp-content/uploads/2016/04/ Malaysia-Innovators-Journey-of-Creativity-to-Reality.pdf

whole new level and he never looked back



Role of Patent Agent (Downstream)

Activities)





Role of Patent Agent (Downstream Activities)





IP Competitive Intelligence

Good knowledge of IP competitive intelligence enables your organization to identify and anticipate:

Product, market and industry trend

(i.e. demand and supply)

Demographic changes

(i.e. population trend, target customers)

Alliances, Collaborations

(i.e. technology alliances, research collaborations)



(i.e. actions or marketing plans of competitors, out-perform competition with proactive tactics & informative decision making)

Acquisition, Licensing

(i.e. target M&A, in-licence, outsourcing)

Corporate strategy and plan

(i.e. useful information to craft your corporate entry strategies, marketing tools)





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Strategic Collaboration:



INTRODUCTION

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STRATEGIC

PARTNER



CAROTINO GROUP

0

Home | About Us | Our Products | Environment | Research Studies | News & Media | Global Offices | Careers

Home > Our Products > Biodiesel

Consumer

Foodservice & Industrial Products

Nutraceuticals

Animal Feed

Oleochemicals

Biodiesel





Carotino in collaboration with the Malaysia Palm Oil Board (MPOB) commercialised the World's First Integrated Palm Biodiesel Plant in 2006. The crude palm oil is derived from RSPO certified plantations and mill, processed into refined palm oil and trans-esterified to palm methyl ester. These processes are all carried out in Carotino/JC Chang group of companies. Hence quality, sustainability and traceability are controlled throughout the supply chain.

The manufacturing facility is the first of its kind in the world with the capacity to produce biodiesel from palm oil that can be used in temperate countries to meet the seasonal cold filter plugging point (CFPP) requirements (summer grade, 0°C; spring and autumn grades, -10°C; and winter grade, -21°C). The plant produces two grades of palm biodiesel i.e. regular (+15°C CFPP) and winter grades (up to -21°C CFPP).

Both regular and winter grade palm biodiesel meets all the stringent specifications of EN14214 and ASTM D6751 including cold soak and filter blocking tendency. Our biodiesel is produced under strict quality control guided by ISO 9001:2008 quality management system. Our biodiesel is free from soaps, heavy metals and other impurities to ensure smooth running of your vehicles and machineries. We have RSPO Supply Chain certification and ISCC certification for the supply of sustainable palm oil biodiesel

Click here to read more > www.enffue.com

Sourced: http://www.carotino.com/biodiesel-49.aspx



environmen

- 1) Red Palm Oil
- 2) Production of alkyl esters
- 3) Extraction of neutraceuticals from Palm Oil
- 4) Large scale production of Biodiesel

Reserved

Patented by

Today, the Carotino-MPOB relationship has become an excellent example of research, organization and industry collaboration. For our joint efforts, both Carotino and MPOB have been honoured with several awards, both at the national and international level. MPOB's pioneering work in the field of BIOfuel from Palm Oil, started in the 80's.



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Strategic Collaboration:

University of Nottingham Gaharu Technologies Sdn Bhd



GAHARU TECHNOLOGIES SDN BHD (GTSB) was founded in October 2008 to undertake intensive cultivation of gaharu-producing Aguilaria plants on a commercial scale. Gaharu, agarwood, eaglewood, aloeswood are just a few of the names for the resinous, fragrant and highly valuable heartwood produced by Aguilaria spp. Agarwood or Black-Gold has long played significant role in Arab culture and religion, where many consider it as part of their culture. Agarwood is not only the most expensive wood, it has many health benefits as well. Chinese has century old writings mentioning agarwood in herbal medicine remedy.

The involvement of gaharu plantation in Malaysia spear headed by ENVIROTECH MANAGEMENT SDN BHD (EMSB) can be traced back to the late 1980s. However this is the first attempt to cultivate this valuable crop on a commercial scale

GTSB has become successful with full support from its subsidiary company EMSB. EMSB is well known for its expertise in land preparation for use in large-scale plantation establishment and management skills where else GTSB has a R&D lab to perform tests on Aquilaria plants for the purpose of enhancing the quality of Gaharu produced.

The proprietary inoculation technology developed by GTSB is an assurance to potential investors in this highly valuable gaharu industry. Whereby tested and proven inoculation method for the induction of gaharu formation in these gaharu-producing plants is vital for any form of commercial venture in the gaharu production business. GTSB's know-how in the field of gaharu oil extraction is indeed a value addition to the country's gaharu industry.

Sourced: http://www.gaharu.com.my/about.php



Research and Business





Success Stories Showcase 1 - Gaharu Technologies Sdn Bhd

Project - Identification of Gaharu species planted, producing powdered and nutritional study of Gaharu

Gaharu is a resin formed in Aquilaria and Gyrinops tree species due to the infection of a specific mold. These trees are largely limited to the Southeast Asian region and is highly valued for its aromatic and medicinal properties. Studies have shown that Aquilaria extracts (Gaharu) possess anti-bacterial properties and valuable phytochemicals, thus, the diverse variety of phytochemicals and their applications has various uses and commercial opportunities. Gaharu Technologies Sdn Bhd (GTSB) based at Gopeng, Perak undertakes intensive cultivation of gaharu-producing Aquilaria plants on a commercial scale and manufactures its own products derived from Gaharu, including herbal tea, cookies, fragrance, and other food products. Through a collaboration with the University of Nottingham Malaysia, GSTB intended to identify the species of the Aquilaria plants in its plantation that are believed to be derived from 12 different species, and to explore the possibility of refining its tea products into water-soluble powdered form and thereafter studying the nutritional values of these refined tea products. This work would generate inventive Gaharu commercial products and breakthrough into new market instead of the traditional perfume and essential oil industry. This proof-of-concept research had completed, and we are now taking on this research to commercialization with further funding by PlaTCOM Ventures Sdn Bhd under the Concept-Commercialisation Gap funding. This exemplary university-industry collaboration has cirly demonstrated the benefits of knowledge and technology transfer between the institutions.





Sourced: https://www.nottingham.edu.my/Research/Business-Engagement/Success-Stories.aspx







Thank you!

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