GALGOTIAS UNIVERSITY
Uttar Pradesh
CREATING KNOWLEDGE

3.4.3

Number of Patents Published / Awarded 2018

Galgotias University

Plot No. 2, Yamuna Expressway,
Opposite, Buddha International Circuit,
Sector 17A, Greater Noida,
Uttar Pradesh 203201, India

3.4.3 Number of Patents published/awarded during the last five years (10)

3.4.3.1: Total number of Patents published/awarded year wise during the last five years

Name of the Teacher	Patent Number	Title of the patent	Year of Award / publish of patent
P K Sharma, Sunita Thakur, Rishabha Malviya	201711031444	Simvastatin Loaded Gastroretentive In-Situ Floatable Gel	2018
P K Sharma, Karuna Kumari, Rishabha Malviya	201711031445	Azithromycin Nanocomplex Capsule	2018
P K Sharma, Pratiksha Srivastava, Rishabha Malviya	201711031446	Method & Composition For Sun Protection Cream	2018
P K Sharma, Sheetal Jha, Rishabha Malviya	201711031447	Formulation For Sustained Drug Delivery	2018
Maruthapillai Kumaresan, Kuppuchamy Sampath Kumar, Thangamariappan Ganesh Kumar, Rathinam Gopal, Selvarajan Annamalai, Krishnan Prabu,Ittira manish,sujatha krishnamoorthy	201811044259	Device, System And Method For Automatic Prevention Against Distraction Of Two Wheeler Driving By Heavy Use Of Mobile Phones	2018
G.K.D. Prasanna Venkatesan, Selvarajan Annamalai, Maruthapillai Kumaresan	201841037086	Intelligent Door Lock System Using Wireless Communication	2018
Jayaraj Janet, Sujatha Krishnamoorthy, Thanga Mariappan Ganesh Kumar, Kuppuchamy Sampath Kumar, Krishnan Prabhu, Sivasubramanian Venkatalakshmi	201841013603	Automated Road Line Marker	2018
PROF. ARVIND KUMAR JAIN PROF. IMRAN ALI,	201811020953	Highly efficient synthesis for the preparation of Novel 9H-purin-2-amine derivatives	2018
PROF. IMRAN ALI PROF. ARVIND KUMAR JAIN	201811020947	New process for the preparation of Novel uracil derivatives and its docking study	2018

Patent Search

Invention Title	SIMVASTATIN LOADED GASTRORETENTIVE IN-SITU FLOATABLE GEL
Publication Number	19/2018
Publication Date	11/05/2018
Publication Type	INA
Application Number	201711031444
Application Filing Date	05/09/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61P 3/00; C07

Inventor

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Applicant

Name	Address	Country	Nat
Galgotias University	Galgotias University of address Plot No.2, Sector 17-A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar,Pin-201306 Uttar Pradesh, India	India	Indi

Abstract:

The present invention relates to an improved gastro retentive drug delivery system comprising a floatable gel system and nanoparticles of a medication, preferably Simvas The floatable gel system is formulated using Tamarind or Grafted Tamarind Seed Polysaccharide (TG). Then the nanoparticles of the medication having Simvastatin are pre and loaded into the floatable gel system. The gastro retentive drug delivery system releases the drug in a controlled manner to a particular location such as stomach.

Complete Specification

to a floatable gel system loaded with Simva
statin nanoparticles.
BACKGROUND
Over the past few decades, gastro retentive dosage forms have recently become a
leading
methodology in the field of site
-
specific orally administered controlled
release drug delivery system. Gastro retentive dosage forms have the potential to
improve local therapy with an increase of short gastric residence time and
unpredictable gastric empt
ying time and decrease the variation in bioavailability,
which is unobserved, in other commercially available preparations.
Approximately
50% of the drug delivery systems available in the market are oral drug delivery

View Application Status

ष्ट्रीय मतदाता सेवा पोर्टल
ATIONAL VOTERS' SERVICES PORTAL

Page last updated on: 26/06/2019

Patent Search

Invention Title	AZITHROMYCIN NANOCOMPLEX CAPSULE
Publication Number	19/2018
Publication Date	11/05/2018
Publication Type	INA
Application Number	201711031445
Application Filing Date	05/09/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K9/48

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Applicant

Name	Address	Country	Nat
Galgotias University	Galgotias University of address Plot No.2, Sector 17-A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar,Pin-201306 Uttar Pradesh, India	India	Indi

Abstract:

Disclosed is a compound for targeted drug delivery. The compound for targeted drug delivery is operable to deliver the active drug to an area where the delivery of the act drug is restricted by P-glycoprotein enzymes. The compound for targeted drug delivery includes a drug, an excipient, and a solvent. FIG. 1 for Abstract Dated this 05th day September 2017 Sarasija P. IN/PA- 1803 Agent for the Applicant

Complete Specification

FIELD
OF
THE
INVENTION
This invention relates to compounds for delivery of therapeutic substances to
tissues and cells and more
particularly to compounds
for delivery of
therapeutic
drug in targeted sites expressing P
-
glycoprotein (P
-
gp
)

View Application Status

Patent Search

Invention Title	METHOD & COMPOSITION FOR SUN PROTECTION CREAM
Publication Number	19/2018
Publication Date	11/05/2018
Publication Type	INA
Application Number	201711031446
Application Filing Date	05/09/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K8/42

Inventor

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Applicant

Name	Address	Country	Nat
Galgotias University	Galgotias University having address Plot No.2, Sector 17-A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar,Pin-201306 Uttar Pradesh	India	Indi

Abstract:

ABSTRACT The present invention is a method and composition for preparation of sun protection cream. The ethyle acetate extract of piper betel leaf and Cinnamomum ve bark is macerated and the solvent is removed by rotary evaporator. The DPPH radical scavenging assay and IC50 value of the extract is determined, so as to prepare nanop of ethyl acetate extract of piper betel leaf and Cinnamomum verum bark extract. Thereafter, a portion of carbopol to nano particiles is mixed such that the sun protection possesses a good spreadability properties to expand over the skin. The said nanoparticles are prepared using 13µg/ml and 18µg/ml of ethyl acetate extract of Piper betel l Cinnamomum verum bark extract. The sun protection cream is prepared by using 10mg/ml of nanoparticles and 1, 1.25 and 1.5% w/v of carbopol.

Complete Specification

METHOD & COMPOSITION
FOR SUN PROTECTION
CREAM
BACKGROUND
Field
of the invention
[0001]
The present invention is to provide an external dermatological formulation and more particularly formulate and evaluate the Sun protection cream containing nanoparticles of Piper betel leaf and Cinnamomum verum bark extracts.
Description of the Related Art
[0002]
Sunscreen, also known as sunblock and suntan lotion, is a lotion, spray, gel or other topical product that absorbs or reflects some of the sun's ultraviolet (UV) radiation and thus helps protect against sunburn, especially for fair

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Patent Search

Invention Title	FORMULATION FOR SUSTAINED DRUG DELIVERY
Publication Number	19/2018
Publication Date	11/05/2018
Publication Type	INA
Application Number	201711031447
Application Filing Date	05/09/2017
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K38/04

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Abstract:

The present invention is a formulation and method for preparation of a sustained drug delivery carrier for drugs such as Etoricoxib. The invention is based on the use of Tamarind Seed Polymer (TSP) as an excipient. The TSP is further added with monochloroacetic acid and sodium hydroxide, also known as carboxymethylation. The carboxymethylation process is further optimized with respect to concentration of sodium hydroxide, monochloroacetic acid, solvent ratio, reaction time, and reaction temperature. Thereafter, carboxymethylation TSP is combined with the Eloricoxib alongwith a solvent such as Double distilled water. The resultant nanoparticle formulatic useful for drug delivery systems.

Complete Specification

[0001]
The pre
sent invention
provides for a formulation that serves to improve the
selectivity, effectiveness, and/or safety of drug administration. More particularly,
the invention is based on
the use of
Tamarind Seed Polymer
(TSP)
to enhance the
effectiveness of drugs such as Etoric
oxib used for pain and inflammation (Arcoxia)
.
Description of the Related Art
[0002]

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Patent Search

Invention Title	DEVICE, SYSTEM AND METHOD FOR AUTOMATIC PREVENTION AGAINST DISTRACTION OF TWO WHEELER DRIVING BY HEAVY USE OF MOBIL PHONES
Publication Number	49/2018
Publication Date	07/12/2018
Publication Type	INA
Application Number	201811044259
Application Filing Date	23/11/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04K3/00

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Abstract:

A method and device for enabling protection of safety of the driver of an automobile vehicle from getting distracted by mobile phone device from any incoming calls by en jamming and blocking of the signals is provided. The device comprises of a vehicle key, wherein the device connects wirelessly with each key user"s cell phone via either Bl or RFID (radio-frequency identification) technologies. While starting of the vehicle, the driver of the vehicle must either slide the key out or push a button to release it, ther device sends a signal to the driver"s cell phone, placing it in driving mode and displaying a stop sign on the phones display screen. There can be exclusions like calling of emergency numbers of pre approved numbers to safeguard the user in case of emergency. The method and device can also forbid the user from texting of messages to a while driving

Complete Specification

, Description:In many countries doing this like different mobile application like Sprints Driver first, Fleet safer mobile, Driver safe.ly, textecution.com, Cell control and keyrusfleet Application.
University of Utah have developed the system which is called as Key2SafeDriving and is aimed at cutting down on road deaths. It relies on Bluetooth technology to wirelessly connect keys to phones.
The key to safe driving is to avoid distraction, says Xuesong Zhou, an assistant professor of civil and environmental engineering who co-invented the system with Wally Curry, a former University of Utah graduate now practicing medicine in Hays, Kan. "We want to provide a simple, cost-effective solution to improve driving safety."
The system includes a device that encloses a car key — one for each teen driver or family member. The device connects wirelessly with each key user's cell phone via eith Bluetooth or RFID (radio-frequency identification) technologies.

To turn on the engine, the driver must either slide the key out or push a button to release it. Then the device sends a signal to the driver's cell phone, placing it in driving mode and displaying a stop sign on the phones display screen.
While in driving mode, teen drivers cannot use their cell phones to talk or send text messages, except for calling 911 or other numbers pre-approved by the parents — m likely, the parents' own cell numbers.
Likely Impact of the results/ outcome on fundamental understanding and applications (if any):
The outcome of this project to save the human lives from the road distraction while driving

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Patent Search

Invention Title	INTELLIGENT DOOR LOCK SYSTEM USING WIRELESS COMMUNICATION
Publication Number	40/2018
Publication Date	05/10/2018
Publication Type	INA
Application Number	201841037086
Application Filing Date	01/10/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	E05B49/00; G08C17/02

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Abstract:

The present invention discloses an intelligent door lock system using a Low Power Wide Area Network. Said intelligent door lock system comprises of a door lock with actu control system, plurality of transceivers (2a and 2b), and said transceivers (2a and 2b) and the door lock system are wirelessly connected through the LoRa (3) communicat system. FIG -2

Complete Specification

TECHNICAL FIELD OF INVENTION

The present invention relates to the field of door locking system, particularly to the field of intelligent door lock system. More particularly relates to the field of intelligent door lock system using a Low Power Wide Area Network.

BACKGROUND OF INVENTION

Most door locks seen in the residential and commercial areas are of mechanical types including a padlock associated with the simple key. As technology advances, there growing trend in improving the lock and door system. In recent times, inventions are in existence to bring a key-less lock system which is automated using a wireless and remote ways to access the doors, therefore creating the term "smart locks".

The existing door locks are of mechanical lever types which is manually opened and closed using a legacy key system. The disadvantages of legacy key system is that they can be easily broken when a certain amount of force is induced on it. Furthermore duplicate keys are easily manufactured or padlocks are easily opened without a keyless medium as it is a lever type. Therefore there is a need digitizing the existing door lock system.

To resolve the existing problems, there are innovative technologies introduced in the field of door locks. Features like digitalizing padlock system, introducing a

keyless system, combining with communication devices with Internet of Things (IoT)...etc. There are some safety features for users in the existing inventions like user monitoring system, fire safety system, accidental and danger alerting system. The solutions for the problems foretold in the existing inventions are disclosed in the prior arts section

View Application Status

Patent Search

Invention Title	AUTOMATED ROAD LINE MARKER
Publication Number	19/2018
Publication Date	11/05/2018
Publication Type	INA
Application Number	201841013603
Application Filing Date	10/04/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	E01C23/222

Inventor

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KRISHNAN PRABHU	Department of ECE, Galgotia University, Delhi,	India	India
SIVASUBRAMANIAN VENKATALAKSHMI	Panimalar Institute of Technology Chennai	India	India

Abstract:

An automated method and process for making road markings is provided. It can be seen, that Road markings are used as a means of controlling and guiding traffic. They a highly important on urban roads and intersections as they promote road safety and bring out smooth and harmonious flow of traffic along paths of travel. They also supp the messages conveyed by road signals and signs. Sometimes, they are used alone to convey certain regulation, information or warning that cannot otherwise be effective known to the road users.Road surface markings are the devices on a road surface in order to convey official information. Road surface markings are used on paved roadw provide guidance and information to drivers and pedestrians. Uniformity and standardisation of the markings is important in minimizing confusion and uncertainty about meaning. It helps to reduce the accidents and manpower requirements for regulating traffic.

Complete Specification

DESC:At present all the road maker machines are semi automated ,it needs human resources to operate the machine . but our purposed system needs no human resources .it implemented with fully automated .
The main functions of the road markings are to guide the safe and smooth flow of traffic in the following ways: i) Segregation of traffic ii) Stop and go iii) Give way instruc iv) Overtaking or not v) Two lanes to one lane/ lane traffic vi) Inter-vehicle distance vii) Parking zone or no parking viii) Speed indication ix) Direction x) One way xi) Pedestrian crossing xii) Type of vehicles allowed
Road markings play a useful role in traffic management .They should convey the required information to the driver without distracting his attention from the carriageway ,CLAIMS:1) An automated road marking device to provide automated road marking, with Uniformity and standardisation of the markings, the said device comprising of A combination of software and hardwares, the softwares viz., Embedded C
Keil IDE, ISP or U-Flash and are used to drive the hardwares viz., Microcontroller
Power supply,Distance Sensor, Line detector, Pump, LCD, Motor, Actuator, the said automated road marking device can provide the road markings, viz, : i) Segregation of traffic ii) Stop and go iii) Give way instruction iv) Overtaking or not v) Two lanes to one lane/ lane traffic vi) Inter-vehicle distance vii) Parking zone or no parking viii) Speed indication ix) Direction x) One way xi) Pedestrian crossing xii) Type of vehicles allowed
2) A method for enabling automated road markings in arterial roads and other types of roads, the method comprising of a combination of softwares and algorithms enabled to operate hardwares, the said method can provide the road markings, viz, : i) Segregation of traffic ii) Stop and go iii) Give way instruction iv) Overtaking or not v Two lanes to one lane/ lane traffic vi) Inter-vehicle distance vii) Parking zone or no parking viii) Speed indication ix) Direction x) One way xi) Pedestrian crossing xii) Type o

View Application Status

Department of Industrial Policy and Promotion
Government of India

Page last updated on: 26/06/2019

Patent Search

Invention Title	HIGHLY EFFICIENT SYNTHESIS FOR THE PREPARATION OF NOVEL 9H-PURIN-2-AMINE DERIVATIVES
Publication Number	27/2018
Publication Date	06/07/2018
Publication Type	INA
Application Number	201811020953
Application Filing Date	05/06/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C07D473/40

Inventor

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Applicant

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Abstract:

The present invention provide new process for the preparation of novel 9H-purine-derivatives of compound formula (3), where purine moiety attached with amino ac
is amino acids, the present invention effectively convert compound formula (3) in only water, with remarkable verities of amino acids, mild condition and higher conv
In this study, we report the synthesis and spectral characterization of a novel series of 9H-purine-2-amine derivatives.

Complete Specification

TECHNICAL FIELD OF THE INVENTION
The present invention related to the preparation of novel 9H-purin-2-amine derivatives and their biological activity against cancer. The invention related to the process of preparing these novel 9H-purin-2-amine derivatives.
The present invention related to the preparation of novel compound of the formula (3), their derivatives. The present invention provides preparation of novel 9H-purin-2- amine derivatives of general formula (3) obtained by 6-chloropurine reacted with amino acids in the presence of sodium carbonate in water followed by adjustment of pH then crystallization to afford compound (3a-3k). These derivatives were obtained with good purity, higher yield, in short reaction time using mild condition and in an efficient eco-friendly manner. The prepared compounds according to the present invention are useful pharmaceutical intermediates.
Background and prior art:
Purine heterocyclic has been found to be biological active. However, very less literature survey encompass its use in the therapeutics such as US Pat. No. 5977089A has disclosed treatment of anti retroviral using novel pharmaceutically active purine derivative and US Pat. No 8012717 B2

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Patent Search

Invention Title	NEW PROCESS FOR THE PREPARATION OF NOVEL URACIL DERIVATIVES AND ITS DOCKING STUDY
Publication Number	25/2018
Publication Date	22/06/2018
Publication Type	INA
Application Number	201811020947
Application Filing Date	05/06/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K31/513

Inventor

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Abstract:

In this study, we report the synthesis and spectral catheterization of novel series of uracil derivatives. In their evaluation of DNA binding activity shows good binding. the following compounds exhibited very good binding activity.

Complete Specification

Field of Invention
The present invention is related the preparation of novel uracil derivatives and their biological activity. The invention also related to the process of preparing these novel Uracil derivatives.
The present invention is related to the preparation of novel compound of the general formula (1), their derivatives. The present invention provide preparation of novel Moc-L-Valine (la-lm) or Chloroformate of general formula (2) obtained by benzylation of 6-Chloro uracil followed by Nmethylation to produce compound formula (2), compound formula (2) reacting with R-(3)-amino piperidine compound formula (3) reacting with Moc-LcValine, HATU in TEA to produce compound (la-lg) or compound formula (2a-2m) reacting with piperazine to produce compound formula (lh-5m). In another embodiment Compound formula (2a-2m) reacting with chloroformates, potassium carbonate in water acetone to produce compounds (5a-5q). These derivatives were obtained higher yield, good purity, mild condition and. efficient eco-fiiendly manner.
O
R'T n «

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