



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020103992

Title of invention:

INTEGRATED HEALTHCARE SYSTEM USING IOT AND CLOUD COMPUTING

Name of inventor(s):

Chakravarthi, R. Ravi; M., Prasanna; P., Gowrisankar; G., Gunasekaran; A., Jaya Kumar; Yamini, K. Anish Pon; J., Krishnadas; V., Balaprakash; Dharamshi, Ravindra Ratilal; Gupta, Sanjai; Geetha, K. Parimala; M. S., Senthil Saravanan; C., Anna Palagan; Dhas, Anand J. and G., Arul Dalton

Term of Patent:

Eight years from 9 December 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 24th day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sec 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

- (a) a declaration that the threats are unjustifiable; and
- (b) an injunction against the continuance of the threats; and
- (c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

- (2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

- (3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6311064

Grant date: 25 September 2023

Registration date: 18 September 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Murugan Sundaram Senthil Saravanan, Justin Abraham Baby Sajin, Parthipan

Thankaraj, Kaviraj Ramar Sengunthar

in respect of the application of such design to:

CLAMPING DEVICE FOR SUBMERGED FRICTION STIR WELDING

PROCESS

International Design Classification:

Version: 14-2023

Class: 08 TOOLS AND HARDWARE

Subclass: 05 OTHER TOOLS AND IMPLEMENTS

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.



Intellectual Property Office is an operating name of the Patent Office:

www.gov.uk/ipo

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202141015800 A

(19) INDIA

(22) Date of filing of Application :02/04/2021

(43) Publication Date : 09/04/2021

(54) Title of the invention : An IOT Based Smart Necklace for Improving Mobility of Blind People

(51) International classification	:A61H0003060000, G09B0021000000, G08B0021020000, A61B0005024000, G01S0015930000	(71)Name of Applicant : 1)Dr.P.Pandiaraja Address of Applicant :Associate Professor Department of Computer Science and Engineering M.Kumarasamy College of Engineering Thalavapalayam, Karur -639113 TamilNadu (State) India Tamil Nadu India 2)Dr. S.V.Anlin Jeba 3)N.Bhuvanewary 4)Dr. A. Selva Reegan 5)Dr. K.John Peter 6)Dr.S.Saravanan 7)Dr. Thompson Stephan
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
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Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE INVENTION AN IOT BASED SMART NECKLACE FOR IMPROVING MOBILITY OF BLIND PEOPLE
Blind or visually disabled people must learn to orient themselves to their surroundings, travel independently, and safely through a range of environments. Many people who are completely blind do not leave their homes without the assistance of a sighted person. As a result, these individuals may become segregated, with strict limits on when and where they may move in their everyday lives. This innovation suggested an IoT-based necklace to help blind people's mobility. It supports them in their everyday lives, makes their tasks easier, and encourages them to get about safely. By using a smart necklace for the blind man, a GPS sensor sends the blind man's current position to the guardian via a short message in real time, and the guardian can easily monitor the blind man's walking route in real time using AI algorithm. To upgrade this invention, you'll need a GSM, a heartbeat sensor, a buzzer, and a battery. This invention also employs an ultrasonic sensor in conjunction with a Raspberry Pi to detect an obstacle in front of it at a distance of up to 13 feet. As a consequence, when moving in their area, the user is alerted to any closed obstacles in range. Once an obstacle is detected, the sensors may send signals to the necklace, which includes a buzzer, to warn blind or visually impaired passengers that they have arrived at a potentially dangerous area near the edge of boarding platforms found in railway and other types of public transportation. Detection and localization of objects in order to provide people with a sense of their surroundings through sensor functions. The sensors also assist the user with mobility by determining the dimensions, range, and height of the objects. This invention can be used for a variety of items, including 1. Finding blind people's locations using a GPS sensor. 2. Using GSM, send a warning to the guardian about their position. 3. Use an ultrasonic sensor to detect obstacles in front of a blind person. 4. Use a heart rate monitor to detect blind heart rate every second. Both of these improvements would aid blind people's mobility in a safe and secure manner. It allows blind people to move safely and efficiently.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241025670 A

(19) INDIA

(22) Date of filing of Application :03/05/2022

(43) Publication Date : 13/05/2022

(54) Title of the invention : Virtual Tool for HR recruiting and evaluation process using Machine Learning techniques

<p>(51) International classification :G06N0003040000, G06N0003080000, G06Q0010100000, G06K0009460000, G06F0017150000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Chiranth K M Address of Applicant :Assistant Professor, Management studies, Visvesvaraya Technological University, Department of MBA, VTU CPGS, Sathagalli layout, Mysuru – 570019. ----- 2)Dr. KAVITHA B. N 3)Ms.Supriya L P 4)Dr. E. Jalaja 5)Dr. E.Neeraja 6)Mrs.Anjali S. Gailwad 7)Mr.Sanjeev Kumar Gupta Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Chiranth K M Address of Applicant :Assistant Professor, Management studies, Visvesvaraya Technological University, Department of MBA, VTU CPGS, Sathagalli layout, Mysuru – 570019. ----- 2)Dr. KAVITHA B. N Address of Applicant :Assistant Professor, Management studies, Visvesvaraya Technological University, Department of MBA, VTU CPGS, Sathagalli layout, Mysuru – 570019. ----- 3)Ms.Supriya L P Address of Applicant :Assistant Professor, Department of Computer science and Engineering, Sree Buddha college of Engineering, Pattoor, Noorand, Alappuzha, Kerala ----- 4)Dr. E. Jalaja Address of Applicant :Associate Professor, School of Management Studies, Chaitanya Bharathi Institute of Technology, Hyderabad-75. ---- 5)Dr. E.Neeraja Address of Applicant :Assistant Professor, Department of Mathematics, KLE society college of science and commerce, Navi Mumbai – 400706. - 6)Mrs.Anjali S. Gailwad Address of Applicant :Bharati Vidyapeeth (Deemed to be University), Institute of Management, Kolhapur. ----- 7)Mr.Sanjeev Kumar Gupta Address of Applicant :Associate Professor, Department of Botany, Government Degree College Basohli, Jammu and Kashmir 184201. -----</p>
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(57) Abstract :

In employee selection technology, various neural networks or other models may be utilized to make decisions. A suggestion for employment may be based on at least some of the processing conducted by a plurality of neural networks, if not all of it. Neural networks, for example, may be used to execute parallel or sequential processing operations. A neural network may be connected to one or more additional neural networks via neural bridges. Depending on their configuration, one or more of the neural networks may provide a binary or other n-ary output. Using a series structure, applicants may be processed progressively in many stages, with those who complete the stages recommended for employment.

No. of Pages : 17 No. of Claims : 4

Patent Search

Invention Title	OPTIMIZED GEO-POLYMER CONCRETE WITH SLAG AND FLY-ASH BLENDS UNDER AMBIENT TEMPERATURE
Publication Number	34/2022
Publication Date	26/08/2022
Publication Type	INA
Application Number	202241046883
Application Filing Date	18/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C04B002800000, C04B0028080000, C04B0111100000, C04B0040000000, C04B0012000000

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Abstract:

Durable properties of Concrete mainly depends upon its resistance against various environment. This invention brings the findings the experimental work on durability of geopolymer concrete manufactured from GGBS and Class F fly ash and with alkaline activators under ambient temperature with different environment. GGBS is replaced by fly ash with various levels from 0 to 50% with a constant concentration of 12M alkali activator solution. The important parameters of this invention are evaluation of change in weight, strength, and micro structural changes. The techniques used to study the degradation a Scanning Electron Microscopy and X-ray Diffraction methods. Fourier transform infrared spectroscopy was also used as an additional method of study. From the experimental study for the period of one year, and with the results of strength characteristics also durability properties, it has been concluded that 40% partial replacement of fly ash to GGBS is the optimum replacement for the production of GGBS based geopolymer concrete under ambient temperature.

Complete Specification

FIELD OF INVENTION

[001] The present invention relates to Geo-Polymer concrete. More particularly, the present invention relates to Geo-Polymer concrete with optimized proportion of Ground Granulated Blast-Furnace Slag (GGBS) and fly-ash attaining the maximum durability at ambient temperature.

BACKGROUND OF THE INVENTION

[002] Cement is the important material for the production of Conventional Concrete. While producing cement, carbon di-oxide is liberated to atmosphere, which pollutes environment. In this scenario an alternate material is needed for the replacement of concrete to reduce the pollution. Geopolymers or Inorganic polymer concrete is a new engineering material satisfies the all the properties of concrete. While manufacturing of geopolymer, different methodology is adopted. Conventional concrete should be sound enough to withstand the resistance against Sulphate, chloride, carbonation, penetration against hazardous liquids for withstanding long time. But due to various reasons the life of the concrete structures is reducing. An alternate material should satisfy these properties. Geo-polymers are the new material, satisfying these properties. Curing is the important, while manufacturing geopolymers.

[003] An U.S. Patent numbered US9327326B2 discloses a preparation methods of geopolymer to obtain polymer heavy metal absorbent after metakaolin powder and activator are carried out hydro-thermal reaction. This method has synthesized geopolymer using hydro-thermal reaction, and is arranged in pairs or groups by the metakaolin and activator of special formulation, has obtained a kind of geopolymer heavy metal absorbent with good heavy metals removal ability.

[004] Another U.S. patent US9802865B1 describes a nano-modified dry-mixed alkali-activated cementitious, or one-part geopolymer cement where blast furnace slag and ground granulated blast furnace slag (GGBS) slag such as steel slag and phosphorus slag ash from municipal solid waste