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**Version 2.2**

**2013**

**MOLECULAR CONNECTIONS PVT LTD.**

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MCPaIRS database is fully searchable and has download options for excel, word and xml files. The database can be accessed by 3 types of users the details of which are given [here](#).

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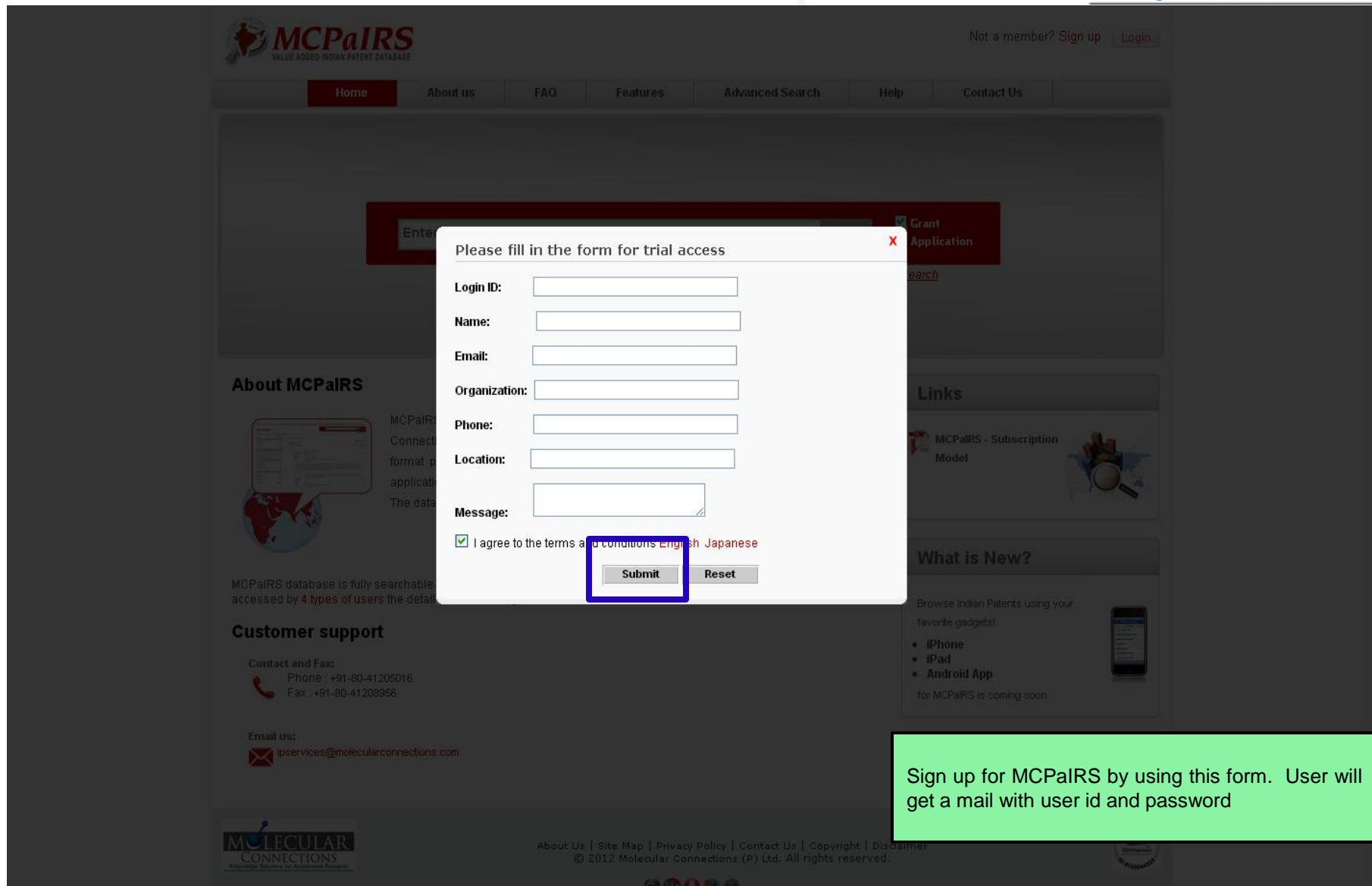
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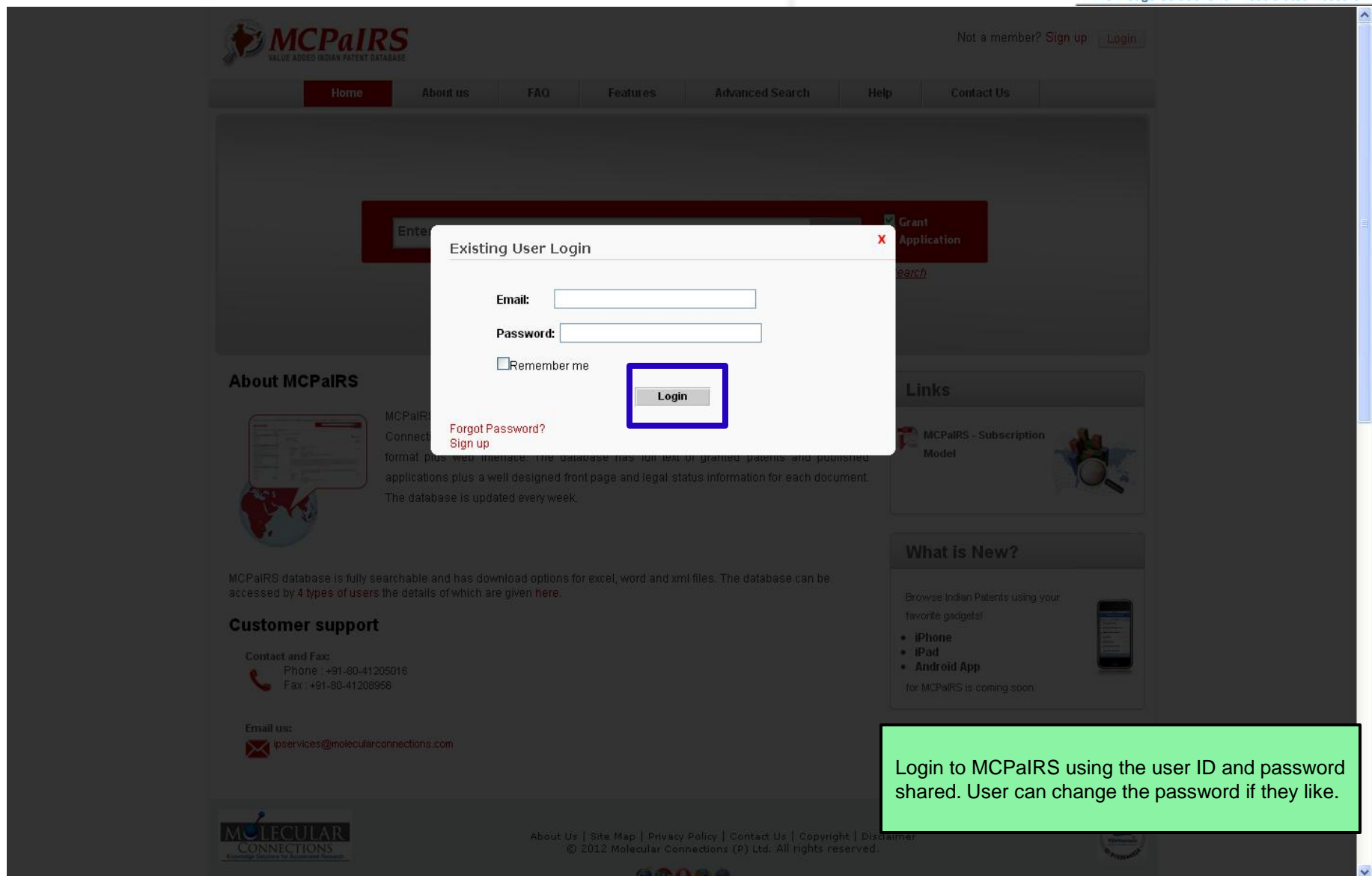
The screenshot shows the MCPaIRS website with a modal form for trial access. The modal form is titled "Please fill in the form for trial access" and contains the following fields:

- Login ID:
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- Location:
- Message:

Below the fields, there is a checkbox labeled "I agree to the terms and conditions" which is checked. To the right of the checkbox are links for "English" and "Japanese". At the bottom of the modal are two buttons: "Submit" and "Reset". The "Submit" button is highlighted with a blue box.

The background website shows the MCPaIRS logo, navigation menu (Home, About us, FAQ, Features, Advanced Search, Help, Contact Us), and various content sections like "About MCPaIRS", "Customer support", and "What is New?".

Sign up for MCPaIRS by using this form. User will get a mail with user id and password



The screenshot shows the MCPaIRS website with a modal window titled "Existing User Login". The modal contains the following elements:

- Title:** Existing User Login
- Email:** Input field
- Password:** Input field
- Remember me:**  Remember me
- Login:** Button (highlighted with a blue border)
- Forgot Password? Sign up:** Link

The background website features a navigation menu with "Home", "About us", "FAQ", "Features", "Advanced Search", "Help", and "Contact Us". The main content area includes sections for "About MCPaIRS", "Customer support", and "What is New?".

Login to MCPaIRS using the user ID and password shared. User can change the password if they like.



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Type your expert search query here

# QUERY PREFIXES AND DEFINITIONS FOR EXPERT SEARCH

Query prefix	Definition	Sample query
PA	Patent Number	<i>PA:239260</i>
AN	Application Number	<i>AN:1276/CHENP/2004</i>
GD	Grant Year	<i>GD:2010</i>
PD	Publication Year	<i>PD:2010</i>
TL	Title	<i>TL:polymer</i>
ABS	Abstract	<i>ABS:detergent</i>
INV	Inventor	<i>INV:Robert</i>
APL	Applicant	<i>APL:Honeywell</i>
IPC	IPC Code	<i>IPC:C11D</i>
CL	Claims	<i>CL:water</i>
FT	Specification	<i>FT:image</i>
FDF	Filing Date	<i>FDF:20061120 (YYYYMMDD)</i>
GDF	Grant Date	<i>GDF:20120817 (YYYYMMDD)</i>
PDF	Publication Date	<i>PDF:20120210 (YYYYMMDD)</i>
PRF	Priority Date	<i>PRF:20080609 (YYYYMMDD)</i>
PRN	Priority Number	<i>PRN:12157295</i>
PRC	Priority Country	<i>PRC:US</i>
AN	International Pub. No.	<i>AN:WO/2004/094441</i>

# QUERY PREFIXES AND DEFINITIONS FOR EXPERT SEARCH

Query prefix	Definition	Sample query
AGT	Agents Name search	<i>AGT:sharma</i>
FML	Family Patent search	<i>FML:EP1789852A2</i>
TAC	Search for Title, Abstract & Claims together	<i>TAC:endosulfan</i>
CHM :Y	Refine results having chemical structures	<i>paracetamol AND CHM:Y</i>
CHM:N	Refine results not having chemical structures	<i>paracetamol AND CHM:N</i>
SEQ:Y	Refine results having sequences	<i>protein AND SEQ:Y</i>
SEQ:N	Refine results not having sequences	<i>protein AND SEQ:N</i>



The screenshot shows a search bar with the query "APL:Dupont AND TL:Polymers NOT GD:2007". To the right of the search bar is a "Go" button and two checked checkboxes: "Grant" and "Application". Below the search bar, there is a link for "Advanced Search" and a note: "Search for Title, Abstract, Applicant, Inventor etc."

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1  **Title:** A SYSTEM AND A METHOD TO DETECT HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS  
**Application Number:** 205/CHE/2012  
**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH  
**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A.

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Embodiments of the present disclosure relate to a system and method to detect hydrogen leakage. The system uses a fluid sensing apparatus, a light source and a photo detector. The **nano**-crystallised palladium gratings are used as sensors which respond sensitively upon exposure to the hydrogen (H<sub>2</sub>). In an embodiment, the hydrogen sensing is based on monitoring the changes in the diffraction efficiency (DE) which is defined as the ratio of the first and the zeroth order diffracted beam intensities. The diffraction efficiency undergoes large and sudden changes as the **nano**-crystalline Pd grating becomes highly disordered due to PdH<sub>x</sub> formation. An embodiment of the present disclosure also relates to producing **nano**-crystalline Pd diffraction gratings along with the design and fabrication aspects of an indigenously built optical diffraction cell for H<sub>2</sub> sensing.

2  **Title:** AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND PARTICLES  
**Application Number:** 440/CHE/2012  
**Applicants:** BELL CERAMIC LTD  
**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN

[Legal Status](#)

The present invention is a ceramic glaze coating for achieving germ free antimicrobial activity on ceramic tiles. The method of glaze coating embedded with multiple ingredients having antimicrobial activity on ceramic tiles comprising, 1) Fritted glaze embedded with borates of calcium, magnesium, zinc etc. 2) Antimicrobial treatment of **Nano** Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with the glaze. The **Nano** particles are highly kinetic colliding balls and the inner surface of the wall, which causes the formation of fine, dispersed particles. The mixture ratio of the grinding media and ZnO powder is around 10:1. The mixture is wet grinding and dried in the oven with temperature 100°C till it gets dried. This powder has particle size distribution from 100nm to 500nm.

Further query editing possible

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**Application Number:** 205/CHE/2012 [Order now](#)  
**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH  
**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A.

[Legal Status](#)

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2  **Title:** AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES  
**Application Number:** 440/CHE/2012 [Order now](#)  
**Applicants:** BELL CERAMIC LTD  
**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN

[Legal Status](#)

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Narrow the search by filing years of interest

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**Application Number:** 205/CHE/2012 [Order now](#)

**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH

**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A.

[Legal Status](#)

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**Application Number:** 440/CHE/2012 [Order now](#)

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**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN

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Narrow the search IPC codes of interest

# QUICK SEARCH PAGE - ENGLISH

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Grant  Application

Title: (e.g detergent && liquid)

Abstract: (e.g herbicides || pesticides)

Claims: (e.g film || Mat || turf || layer)

TAC - Title, Abstract & Claims (e.g carbon || polymer )

Description: (e.g nano && polymer)

Applicant(s): (e.g Department of Atomic Energy)

Inventor(s): (e.g Baldev Raj)

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Syntax for 'OR': '||'

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English 日本語

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要約: (入力例 herbicides || pesticides)

請求項: (入力例 film || Mat || turf || layer)

発明の名称, 要約 & 請求項: (e.g carbon || polymer)

明細書: (入力例 nano && polymer)

出願人: (入力例 Department of Atomic Energy)

発明者: (入力例 Baldev Raj)

日付 (YYYYMMDD形式)

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2  **Title:** **AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF NANO PARTICLES**

**Application Number:** 440/CHE/2012 [Order now](#)

**Applicants:** BELL CERAMIC LTD

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[Legal Status](#)

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**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN  
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The present invention is a ceramic glaze coating for achieving germ free antimicrobial activity. The method of glaze coating embedded with multiple ingredients having antimicrobial activity. The glaze coating comprising, 1) Fritted glaze embedded with borates of calcium, magnesium, and zinc oxide, 2) treatment of Nano Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with the glaze coating. The Nano particles highly kinetic colliding balls and the inner surface of the fine, dispersed particles. The mixture ratio of the grinding media and ZnO powder is 1:1. The mixture is wet grinding and dried in the oven with temperature 100Â°C till it gets dried. This powder has particle size distribution from 100nm to 500nm.

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(440/CHE/2012) AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF NANO PARTICLES

**Bibliographic Data** | [Claims](#) | [Description](#) | [Drawings](#) | [Legal Status](#)

(21) Application Number : 440/CHE/2012  
 (22) Filing Date : 06/02/2012  
 (43) Publication Date : 17/02/2012  
 (71) Applicant(s) : BELL CERAMIC LTD;

(72) Inventor(s) : C.S. MURTHY;AGARWAL, ANIL;KUMAR, T.V. KRISHNA;R. VINOOTHAN;

(51) International Classifications : C04B;  
 54) Title : AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF NANO PARTICLES

(57) Abstract :

The present invention is a ceramic glaze coating for achieving germ free antimicrobial activity on ceramic tiles. The present invention further discloses a method of glaze coating embedded with multiple ingredients having antimicrobial activity on ceramic body with primary coating of enobse. The glaze coating comprising, 1) Fritted glaze embedded with borates of calcium, magnesium, zinc etc. 2) Antimicrobial activity from MgO and presence of ZnO. 3) Infusion treatment of Nano Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with the glaze. The invention further discloses a method for Preparation of Zinc Oxide Nano particles highly kinetic colliding balls and the inner surface of the wall, which causes repeated deformation & destruction results the formation of fine, dispersed particles. The mixture ratio of the grinding media and ZnO powder is around 10:1 by weight percentage. This material is ground for 24hours by wet grinding and dried in the oven with temperature 100°C till it gets dried. This powder has particle size distribution from 100nm to 500nm.

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( 440/CHE/2012 ) AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF NANO PARTICLES

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(57) Abstract :

The present invention is a ceramic glaze coating for achieving germ free antimicrobial activity on ceramic tiles. The present invention further discloses a method of glaze coating embedded with multiple ingredients having antimicrobial activity on ceramic body with primary coating of engobe. The glaze coating comprising, 1) Fritted glaze embedded with borates of calcium, magnesium, zinc etc. 2) Antimicrobial activity from MgO and presence of ZnO. 3) Infusion treatment of Nano Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with the glaze. The invention further discloses a method for Preparation of Zinc Oxide Nano particles highly kinetic colliding balls and the inner surface of the wall which causes repeated deformation & destruction results the formation of fine, dispersed particles. The mixture ratio of the grinding powder is around 10:1 by weight percentage. This material is ground for 24hours by wet grinding and dried in the oven with temperature 100°C. This powder has particle size distribution from 100nm to 500nm.

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- 1  **Title:** A SYSTEM AND A METHOD TO DETECT HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS
- Application Number:** 205/CHE/2012
- Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH
- Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A.

[Legal Status](#)

Embodiments of the present disclosure relate to a system and method to detect hydrogen leakage. The system uses a fluid sensing apparatus, a light source and a photo detector. The **nano**-crystallised palladium gratings are used as sensors which respond sensitively upon exposure to the hydrogen (H<sub>2</sub>). In an embodiment, the hydrogen sensing is based on monitoring the changes in the diffraction efficiency (DE) which is defined as the ratio of the first and the zeroth order diffracted beam intensities. The diffraction efficiency undergoes large and sudden changes as the **nano**-crystalline Pd grating becomes highly disordered due to PdH<sub>x</sub> formation. An embodiment of the present disclosure also relates to producing **nano**-crystalline Pd diffraction gratings along with the design and fabrication aspects of an indigenously built optical diffraction cell for H<sub>2</sub> sensing.

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- 2  **Title:** AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES
- Application Number:** 440/CHE/2012
- Applicants:** BELL CERAMIC LTD
- Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN

[Legal Status](#)

The present invention is a ceramic glaze coating for achieving germ free and a method of glaze coating embedded with multiple ingredients having antimicrobial activity comprising, 1) Fritted glaze embedded with borates of calcium, magnesium and zinc. The invention further discloses a method for Preparation of Zinc treatment of **Nano** Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with the glaze. The invention further discloses a method for Preparation of Zinc

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1  **Title:** A SYSTEM AND A METHOD TO DETECT HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS

**Application Number:** 205/CHE/2012

**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH

**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A.

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Embodiments of the present disclosure relate to a system and method to detect hydrogen leakage. The system uses a fluid sensing apparatus, a light source and a photo detector. The **nano**-crystallised palladium gratings are used as sensors which respond sensitively upon exposure to the hydrogen (H<sub>2</sub>). In an embodiment, the hydrogen sensing is based on monitoring the changes in the diffraction efficiency (DE) which is defined as the ratio of the first and the zeroth order diffracted beam intensities. The diffraction efficiency undergoes large and sudden changes as the **nano**-crystalline Pd grating becomes highly disordered due to PdH<sub>x</sub> formation. An embodiment of the present disclosure also relates to producing **nano**-crystalline Pd diffraction gratings along with the design and fabrication aspects of an indigenously built optical diffraction cell for H<sub>2</sub> sensing.

2  **Title:** AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES

**Application Number:** 440/CHE/2012

**Applicants:** BELL CERAMIC LTD

**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN

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The present invention is a ceramic glaze coating for achieving germ free and a method of glaze coating embedded with multiple ingredients having antimicrobial activity comprising, 1) Fritted glaze embedded with borates of calcium, magnesium and zinc oxide. The glaze is fired at 1000°C. The antimicrobial activity of the glaze is tested against **Nano** ZnO particles highly kinetic colliding balls and the inner surface of the fine, dispersed particles. The mixture ratio of the grinding media and ZnO powder is around 10:1 by weight percentage. This material is ground for 24 hours by wet grinding and dried in the oven with temperature 100°C till it gets dried. This powder has particle size distribution from 100nm to 500nm.

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**Title:** HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS

**Application Number:** nano2k12

**Applicants:** ADVANCED SCIENTIFIC RESEARCH

**Inventors:** U,SAGADE, ABHAY A.

**Embodiment:** A method to detect hydrogen leakage. The system uses a fluid sensing apparatus, a light source and a photo detector. The **nano**-crystallised palladium gratings are used as sensors which respond sensitively upon exposure to the hydrogen (H<sub>2</sub>). In an embodiment, the hydrogen sensing is based on monitoring the changes in the diffraction efficiency (DE) which is defined as the ratio of the first and the zeroth order diffracted beam intensities. The diffraction efficiency undergoes large and sudden changes as the **nano**-crystalline Pd grating becomes highly disordered due to PdH<sub>x</sub> formation. An embodiment of the present disclosure also relates to producing **nano**-crystalline Pd diffraction gratings along with the design and fabrication aspects of an indigenously built optical diffraction cell for H<sub>2</sub> sensing.

2

**Title:** AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES

**Application Number:** 440/CHE/2012

**Applicants:** BELL CERAMIC LTD

**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA

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The present invention is a ceramic glaze coating for achieving germ free antimicrobial activity on ceramic tiles. The present invention further discloses a method of glaze coating embedded with multiple ingredients having antimicrobial activity on ceramic body with primary coating of enamel. The glaze coating

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**Title:** M. ORYZAE POLYNUCLEOTIDE ASSOCIATED WITH BLAST RESISTANCE AND USES THEREOF

**Application Number:** 398/DEL/2013

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**Applicants:** INDIAN COUNCIL OF AGRICULTURAL RESEARCH

**Inventors:** RAY, SOHAM ; SHARMA, TILAK RAJ

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The present invention relates to the identification, cloning and characterization of AvrPi54 gene from Magnaporthe oryzae strain RML-29 that confers resistance to a blast disease. The present invention provides Magnaporthe oryzae polynucleotide, wherein expression of said isolated polynucleotide sequence in a transgenic plant increases blast disease resistance in the transgenic plant compared to an untransformed plant. The present invention further provides recombinant DNA expression cassette, DNA construct and recombinant host cell comprising the Magnaporthe oryzae polynucleotide. The present invention further provides transgenic plants, plant cell seed and progeny thereof overexpressing the polynucleotide isolated from Magnaporthe oryzae exhibiting increased resistance to blast disease.

2

**Title:** A SMALL CHAPERONE

**Application Number:** 642/DEL/2013

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**Applicants:** INDIAN INSTITUTE OF TECHNOLOGY DELHI

**Inventors:** TOMAR, RACHANA ; KUNDU, BISHWAJIT

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The present invention relates to a novel **protein** exhibiting chaperoning activity. The novel **protein** for its application in preventing irreversible aggregation or increasing solubility of **protein** samples that are susceptible to form inclusion bodies. The novel **protein** is also useful in inhibiting amyloidogenesis.

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Title: WITH BLAST RESISTANCE AND USES THEREOF

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The present invention relates to the identification, cloning and characterization of AvrPi54 gene from Magnaporthe oryzae strain RML-29 that confers resistance to a blast disease. The present invention provides Magnaporthe oryzae polynucleotide, wherein expression of said isolated polynucleotide sequence in a transgenic plant increases blast disease resistance in the transgenic plant compared to an untransformed plant. The present invention further provides recombinant DNA expression cassette, DNA construct and recombinant host cell comprising the Magnaporthe oryzae polynucleotide. The present invention further provides transgenic plants, plant cell seed and progeny thereof overexpressing the polynucleotide isolated from Magnaporthe oryzae exhibiting increased resistance to blast disease.

2

Title: A SMALL CHAPERONE

Application Number: 642/DEL/2013

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Applicants: INDIAN INSTITUTE OF TECHNOLOGY DELHI

Inventors: TOMAR, RACHANA ; KUNDU, BISHWAJIT

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The present invention relates to a novel **protein** exhibiting chaperoning activity. The novel **protein** is also useful in inhibiting amyloidogenesis. The present invention provides a novel **protein** for its application in preventing irreversible aggregation or increasing solubility of **protein** samples that are susceptible to form inclusion bodies. The novel **protein** is also useful in inhibiting amyloidogenesis.

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1  **Title:** **A SYSTEM AND A METHOD TO DETECT HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS**

**Application Number:** 205/CHE/2012

**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH

**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A.

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Embodiments of the present disclosure relate to a system and method to detect hydrogen leakage. The system uses a fluid sensing apparatus, a light source and a photo detector. The **nano**-crystallised palladium gratings are used as sensors which respond sensitively upon exposure to the hydrogen (H<sub>2</sub>). In an embodiment, the hydrogen sensing is based on monitoring the changes in the diffraction efficiency (DE) which is defined as the ratio of the first and the zeroth order diffracted beam intensities. The diffraction efficiency undergoes large and sudden changes as the **nano**-crystalline Pd grating becomes highly disordered due to PdH<sub>x</sub> formation. An embodiment of the present disclosure also relates to producing **nano**-crystalline Pd diffraction gratings along with the design and fabrication aspects of an indigenously built optical diffraction cell for H<sub>2</sub> sensing.

2  **Title:** **AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES**

**Application Number:** 440/CHE/2012

**Applicants:** BELL CERAMIC LTD

**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN

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The present invention is a ceramic glaze coating for achieving germ free and method of glaze coating embedded with multiple ingredients having antimicrobial comprising, 1) Fritted glaze embedded with borates of calcium, magnesium treatment of **Nano** Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with Oxide **Nano** particles highly kinetic colliding balls and the inner surface of the fine, dispersed particles. The mixture ratio of the grinding media and ZnO powder is around 10:1 by weight percentage. This material is ground for 24 hours by wet grinding and dried in the oven with temperature 100°C till it gets dried. This powder has particle size distribution from 100nm to 500nm

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(21) Application Number : 440/CHE/2012  
(22) Filing Date : 06/02/2012  
(43) Publication Date : 17/02/2012  
(71) Applicant(s) : BELL CERAMIC LTD;

(72) Inventor(s) : C.S. MURTHY;AGARWAL, ANIL;KUMAR, T.V. KRISHNA;R. VINOOTHAN;

(51) International Classifications : C04B;  
54) Title : AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF NANO PARTICLES

(57) Abstract :

The present invention is a ceramic glaze coating for achieving germ free antimicrobial activity on ceramic tiles. The present invention further discloses a method of glaze coating embedded with multiple ingredients having antimicrobial activity on ceramic body with primary coating of engobe. The glaze coating comprising, 1) Fritted glaze embedded with borates of calcium, magnesium, zinc etc. 2) Antimicrobial activity from MgO and presence of ZnO. 3) Infusion treatment of Nano Zinc Oxide antimicrobial activity at 0.3 to 0.7% dosage along with the glaze. The invention further discloses a method for Preparation of Zinc Oxide Nano particles highly kinetic colliding balls and the inner surface of the wall, which causes repeated deformation & destruction results the formation of fine, dispersed particles. The mixture ratio of the grinding media and ZnO powder is around 10:1 by weight percentage. This material is ground for 24hours by wet grinding and dried in the oven with temperature 100°C till it gets dried. This powder has particle size distribution from 100nm to 500nm.

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1  **Title:** **A SYSTEM AND A METHOD TO DETECT HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS**

**Application Number:** 205/CHE/2012 [Order now](#)

**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH

**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A. [Legal Status](#)

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2  **Title:** **AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES**

**Application Number:** 440/CHE/2012 [Order now](#)

**Applicants:** BELL CERAMIC LTD

**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN [Legal Status](#)

The present invention is a ceramic glaze coating for achieving germicidal method of glaze coating embedded with multiple ingredients having comprising, 1) Fritted glaze embedded with borates of calcium, magnesium treatment of **Nano** Zinc Oxide antimicrobial activity at 0.3 to 0.7% dose. Oxide **Nano** particles highly kinetic colliding balls and the inner surface, dispersed particles. The mixture ratio of the grinding media and ZnO powder is around 10:1 by weight percentage. This material is ground for 24 hours by wet grinding and dried in the oven with temperature 100°C till it gets dried. This powder has particle size distribution from 100nm to 500nm.

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<input checked="" type="checkbox"/>	((carbon)) AND TYPE:G			
<input checked="" type="checkbox"/>	gen1	93751	2012-10-16	
	(carbon)			
<input checked="" type="checkbox"/>	gen2	100029 (2833)*	2012-10-16	
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1  **Title:** **A SYSTEM AND A METHOD TO DETECT HYDROGEN LEAKAGE USING **NANO**-CRYSTALLISED PALLADIUM GRATINGS**

**Application Number:** 205/CHE/2012 [Order now](#)

**Applicants:** JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH

**Inventors:** KULKARNI, GIRIDHAR U, GUPTA, RITU, SAGADE, ABHAY A. [Legal Status](#)

Embodiments of the present disclosure relate to a system and method to detect hydrogen leakage. The system uses a fluid sensing apparatus, a light source and a photo detector. The **nano**-crystallised palladium gratings are used as sensors which respond sensitively upon exposure to the hydrogen (H<sub>2</sub>). In an embodiment, the hydrogen sensing is based on monitoring the changes in the diffraction efficiency (DE) which is defined as the ratio of the first and the zeroth order diffracted beam intensities. The diffraction efficiency undergoes large and sudden changes as the **nano**-crystalline Pd grating becomes highly disordered due to PdH<sub>x</sub> formation. An embodiment of the present disclosure also relates to producing **nano**-crystalline Pd diffraction gratings along with the design and fabrication aspects of an indigenously built optical diffraction cell for H<sub>2</sub> sensing.

2  **Title:** **AN ANTI MICROBIAL GLAZE COMPOSITION FOR CERAMIC TILES AND KINETIC COLLIDING BALL METHOD FOR PRODUCTION OF **NANO** PARTICLES**

**Application Number:** 440/CHE/2012 [Order now](#)

**Applicants:** BELL CERAMIC LTD

**Inventors:** C.S. MURTHY, AGARWAL, ANIL, KUMAR, T.V. KRISHNA, R. VINOTHAN [Legal Status](#)

The present invention is a ceramic glaze coating for achieving germ method of glaze coating embedded with multiple ingredients having comprising, 1) Fritted glaze embedded with borates of calcium, magnesium treatment of **Nano** Zinc Oxide antimicrobial activity at 0.3 to 0.7% dose. **Nano** particles highly kinetic colliding balls and the inner surface, fine, dispersed particles. The mixture ratio of the grinding media and **ZnO** powder is around 10:1 by weight percentage. This material is ground for 24 hours by wet grinding and dried in the oven with temperature 100Å°C till it gets dried. This powder has particle size distribution from 100nm to 500nm

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