

### 3.4. Research Publications & Awards

Sr. No.	Cr.No	Documents of evidence	Year	Page No
1	3.4.3	Smart Transport Ticketing System using RFID	2017-18	2
2	3.4.3	System and method for Blood group Detection	2016-17	3
3	3.4.3	Energy Efficient Solar Power through Vaseline Glass Fluorescence	2015-16	4
4	3.4.3	Energy efficient Lamp System	2015-16	5
5	3.4.3	Energy Efficient signal System	2015-16	6
6	3.4.3	Smart gas water heating System	2015-16	7
7	3.4.3	Solar Hybrid Air Conditioning System	2014-15	8
8	3.4.3	Solar Thermal Energy Storage Device	2014-15	9
9	3.4.3	Damp Water Evaporation Controlled by Laser Thermocouple Cooling Technique	2014-15	10
10	3.4.3	Self Hydro Powered Electric Pump Hybridized with Solar power and Piezo-Electric Power	2014-15	11

Detail	
APPLICATION NUMBER	201821006226
APPLICANT NAME:	1. VICKY SALUNKHE 2. SHREYAS MAHANGADE 3. RAHUL KHOSE 4. NIKHIL ANGANE 5. POONAM GUPTA
DATE OF FILING	12/02/2018 17:02:23
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	salunkhevicky01@gmail.com
E-MAIL (UPDATED Online)	
DATE OF COMPLETE SPECIFICATION	12/02/2018 17:02:23
PRIORITY DATE	NA
TITLE OF INVENTION	SMART TRANSPORT TICKETING SYSTEM USING RFID
PUBLICATION DATE (U/S 11A)	23/02/2018

Application Status

## Patents Applied

**PATENT OFFICE**  
**INTELLECTUAL PROPERTY BUILDING**  
 1<sup>st</sup> M. Road, Aerod. Hill, Mumbai-400 037  
 Tel No: 022-2610221, 24117701, 24118928 FAX No: 02-24130397  
 E-mail: ipo@ipc.gov.in  
 Web Site: www.ipolife.gov.in  
 Docket No: 13288



Date: 23/08/2014  
 Agent Number:

To: **RAJENDRA VITHAL SURYAWANSHI**  
 A/201, AMARSHAMLEDDHI APT., PUNE-SOLAPUR ROAD, NEAR ARASHWAN, HADAPSAR, PUNE-411 028,  
 MAHARASHTRA, INDIA.

Sl. No.	CDR Number	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	8948	ORDINARY APPLICATION Part - A, Class: B	2007MUM2014	CAMP WATER EVAPORATION CONTROLLED BY LASER THERMOCOUPLE COOLING TECHNIQUE.	1760	1760
2		E-218272014-MUM	2007MUM2014	Form2	0	0
3		E-217882014-MUM	2007MUM2014	Form3	0	0
4		E-217002014-MUM	2007MUM2014	Form5	0	0
5	8948	ORDINARY APPLICATION Part - A, Class: B	2008MUM2014	SMART GAS WATER HEATING SYSTEM.	1760	1760
6		E-217882014-MUM	2008MUM2014	Form2	0	0
7		E-217462014-MUM	2008MUM2014	Form3	0	0
8		E-217002014-MUM	2008MUM2014	Form5	0	0
<b>Total Amount</b>					<b>3520</b>	<b>3520</b>

Received a sum of Rs. 3520 (Three Thousand Five Hundred & Twenty only) as under

Receipt No.	Bank Name	Chq No./Bank Number	Chq Date/Bank Date	Amount in Rs.
				3520

Note: This is electronically generated receipt hence no signature required.

# Patents Applied

**PATENT OFFICE**  
**INTELLECTUAL PROPERTY BUILDING**  
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Date/Time  
 23/06/2014  
 Agent Number:

To  
**RAJENDRA VITTHAL SURYAWANSHI**  
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 MAHARASHTRA, INDIA

Sr. No.	CBR Number	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	9945	ORDINARY APPLICATION Pages: 5 , Claims: 0	2007/MUM/2014	DAMP WATER EVAPORATION CONTROLLED BY LASER THERMOCOUPLE COOLING TECHNIQUE	1760	1760
2		E-2/180P/2014-MUM	2007/MUM/2014	Form2	0	0
3		E-3/1764/2014-MUM	2007/MUM/2014	Form3	0	0
4		E-5/1005/2014-MUM	2007/MUM/2014	Form5	0	0
5	9945	ORDINARY APPLICATION Pages: 4 , Claims: 0	2008/MUM/2014	SMART GAS WATER HEATING SYSTEM	1760	1760
6		E-2/1809/2014-MUM	2008/MUM/2014	Form2	0	0
7		E-3/1765/2014-MUM	2008/MUM/2014	Form3	0	0
8		E-5/1005/2014-MUM	2008/MUM/2014	Form5	0	0
<b>Total Amount</b>					<b>3520</b>	<b>3520</b>

Received a sum of Rs. 3520 (Rupees Three Thousand Five Hundred & Twenty only) as under:

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash				3520

Note: This is electronically generated receipt hence no signature required.

### Application Details

APPLICATION NUMBER	2236/MUM/2014
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/01/2015
APPLICANT NAME	RAJENDRA VITTHAL SURYAWANSHI
TITLE OF INVENTION	ENERGY EFFICIENT SIGNAL SYSTEM.
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	01/01/2016
DUPLICATION DATE (U/S 11A)	15/07/2016

### Application Details

APPLICATION NUMBER	2237/MUM/2014
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/12/2014
APPLICANT NAME	RAJENDRA VITTHAL SURYAWANSHI
TITLE OF INVENTION	ENERGY EFFICIENT LAMP SYSTEM
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	raj_fagana@yahoo.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	01/12/2015
PUBLICATION DATE (U/S 11A)	10/06/2016



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 E-Mail: ipa@ipc.gov.in  
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 Docket No.: 10078



Date/Time  
 05/07/2014  
 Agent Number:

To  
 RAJENDRA VETHAL SURYAWANSHI  
 A/021, SHARDAKUNDE CH APT., PUNE-SOLAPUR ROAD, NEAR AKASHWANI, HADAPSAR, PUNE-411 028,  
 MAHARASHTRA, INDIA.

Sr. No.	Case Number	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	10078	ORDINARY APPLICATION Pages: 7, Claims: 0	2233/MUM/2014	SELF-HYBRID POWERED ELECTRIC PUMP HYBRIDIZED WITH SOLAR POWER AND PNEUMATIC ELECTRIC POWER	1760	1760
2		E-21989/2014-MUM	2233/MUM/2014	Form2	0	0
3		E-21997/2014-MUM	2233/MUM/2014	Form3	0	0
4		E-21100/2014-MUM	2233/MUM/2014	Form5	0	0
5	10078	ORDINARY APPLICATION Pages: 11, Claims: 0	2234/MUM/2014	ENERGY EFFICIENT SIGNAL SYSTEM	1760	1760
6		E-21984/2014-MUM	2234/MUM/2014	Form2	0	0
7		E-21986/2014-MUM	2234/MUM/2014	Form3	0	0
8		E-21101/2014-MUM	2234/MUM/2014	Form5	0	0
9	10078	ORDINARY APPLICATION Pages: 7, Claims: 0	2237/MUM/2014	ENERGY EFFICIENT LAMP SYSTEM	1760	1760
10		E-21985/2014-MUM	2237/MUM/2014	Form2	0	0
11		E-21988/2014-MUM	2237/MUM/2014	Form3	0	0
12		E-21102/2014-MUM	2237/MUM/2014	Form5	0	0
Total Amount					5280	5280

Received a sum of Rs. 5280 (Rupees Five Thousand Two Hundred & Eighty only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash				5280

Note: This is electronically generated receipt hence no signature required.

[https://mail.google.com/\\_fsc/mail-static/\\_fjs/k=gmail.main.en.wQ13XoLqoRs.O/m=m...](https://mail.google.com/_fsc/mail-static/_fjs/k=gmail.main.en.wQ13XoLqoRs.O/m=m...) 7/14/2014

APPLICATION NUMBER	2235/MUM/2014
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/10/2014
APPLICANT NAME	RAJENDRA VITTHAL SURYAWANSHI
TITLE OF INVENTION	SELF-HYDRO POWERED ELECTRIC PUMP HYBRIDIZED WITH SOLAR POWER AND PIEZO-ELECTRIC POWER
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	07/10/2015
PUBLICATION DATE (U/S 11A)	15/04/2016



(12) PATENT APPLICATION PUBLICATION

(21) Application No.1868/DEL/2015 A

(19) INDEA

(22) Date of filing of Application :23/06/2015

(43) Publication Date : 17/07/2015

(54) Title of the invention : SOLAR HYBRID AIR CONDITIONING SYSTEM

(51) International classification	F28D23/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Gattani, Manoj Kumar
(32) Priority Date	:NA	Address of Applicant :Post Office - Himmatnagar (334802),
(33) Name of priority country	:NA	District - Bikaner, Rajasthan, India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Gattani, Manoj Kumar
(87) International Publication No	:NA	
(61) Patent of Additive to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A solar hybrid air conditioning system adapted for converting waste heat energy into useful heat energy. The system includes a plurality of heat absorbing units, a heat exchange unit, a coolant, a condenser, an expansion valve, a control unit and an evaporator. The plurality of heat absorbing units is adapted to absorb the waste heat energy from the environment. The heat exchange unit is adapted to exchange the said absorbed heat energy to the compressor unit. The said compressor unit utilizes the said absorbed heat energy for increasing the temperature and pressure of the coolant. The condenser is adapted to condense the said high temperature and pressure coolant into a liquid. The expansion valve is adapted to reduce the pressure and temperature of the said liquid coolant. The evaporator is adapted to evaporate the said coolant from a liquid state into a gaseous state.

No. of Pages : 17 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.1868/DEL/2015 A

(19) INDEA

(22) Date of filing of Application :23/06/2015

(43) Publication Date : 17/07/2015

(54) Title of the invention : SOLAR HYBRID AIR CONDITIONING SYSTEM

(51) International classification	F28D23/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Gaitani, Manoj Kumar
(32) Priority Date	:NA	Address of Applicant :Post Office - Himmatnagar (334802),
(33) Name of priority country	:NA	District - Bikaner, Rajasthan, India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Gaitani, Manoj Kumar
(87) International Publication No	:NA	
(61) Patent of Additive to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A solar hybrid air conditioning system adapted for converting waste heat energy into useful heat energy. The system includes a plurality of heat absorbing units, a heat exchange unit, a coolant, a condenser, an expansion valve, a control unit and an evaporator. The plurality of heat absorbing units is adapted to absorb the waste heat energy from the environment. The heat exchange unit is adapted to exchange the said absorbed heat energy to the compressor unit. The said compressor unit utilizes the said absorbed heat energy for increasing the temperature and pressure of the coolant. The condenser is adapted to condense the said high temperature and pressure coolant into a liquid. The expansion valve is adapted to reduce the pressure and temperature of the said liquid coolant. The evaporator is adapted to evaporate the said coolant from a liquid state into a gaseous state.

No. of Pages : 17 No. of Claims : 11