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To Anuj Raturi

Gyananand Bhawan, Kalinka Vihar, Lane No. 3, Majrimafi, IIP Mohkampur Kala-248005, Dehradun, Uttarakhand, India

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Nume	Remarks
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2	202211065550	TEMP/E-1/75632/2022- DEL	1600	44434	FORM 1	AN IMPROVED AIR VENTILATOR
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(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

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(54) Title of the invention: AN IMPROVED AIR VENTILATOR

(51) International classification	:F25B0013000000, F28F0003020000, A01G0009240000, A61P0007020000, A61P0009000000	(71)Name of Applicant: 1)J B INSTITUTE OF TECHNOLOGY Address of Applicant: NH-72, VILLAGE SHANKARPUR,
(86) International Application No Filing Date	:NA :NA	CHAKRATA ROAD, DEHRADUN, Uttarakhand, 248197, India. Dehradun
(87) International Publication No	: NA	Address of Applicant : NA (72)Name of Inventor :
(61) Patent of Addition to Application Number Filing Date	:NA :NA	1)Dr. B. K. Singh Address of Applicant :Department of Electrical Engineering, J B Institute of Technology. Dehradun
Application Number	:NA :NA	2)Dr. Vibhutesh Kumar Singh Address of Applicant :Department of Electrical Engineering, J B Institute of Technology. Dehradun

(57) Abstract:

The present relates to an improved air ventilator to evacuate hot air trapped inside the room, specifically during the summer season. The apparatus comprises at least an indoor unit, an intermediate unit, and an outdoor unit, wherein in integrated form all said units eject or evacuate accumulated hot air from the room to the atmosphere and provide an ideal condition for cooling devices inside the room.

No. of Pages: 25 No. of Claims: 7

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FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT					(FOR OFFICE USE ONLY)				
(See section 7, 5	4 and 135 and	sub	-rule (1) of rule	e 20)- -				
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3A. APPLICA									
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If "No", furnis	h the details o	f the	inventor(s)						
Name in Ful			tionality	1	ountry of esidence		Address of t	he I	nventor
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5. TITL	E OF THE INV	ENTION			. <u> </u>		
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(i) Declaration by the inventor(s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

Dated this: November 15, 2022.

Signature(s)
Name(s) of the signatory

Polering	Vilbrutal Single
Dr. B. K. Singh	Dr. Vibhutesh Kumar Singh

(ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

Dated this

(Not applicable)

- a) Signature(s)
- b) Name(s) of the signatory

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- ☑ I am/ We are in possession of the above-mentioned invention.
- ☑ The complete specification relating to the invention is filed with this application.
- ☐ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- ☑ There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- ☑ I am/we are the true & first inventor(s).
- ☑ I am/we are the assignee or legal representative of true & first inventor(s).
- The application or each of the applications, particulars of which are given in Paragraph 8, was the first application in convention country/countries in respect of my/our invention(s).
- I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph 9.
- The application is divided out of my /our applications particulars of which is given in Paragraph 10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.
- The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph 11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION (a) Form 2

Item	Details	Fee	Remarks	
Complete #	No. of pages: 17		(Total 25 pages)	
No. of Claim(s)	No. of claims 7 and No. of pages: 3			
Abstract	No. of pages: 1			
No. of Drawing(s)	No. of drawings No. 8 of pages: 4			

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable.
- (c) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (d) Statement and Undertaking on Form 3
- (e) Declaration of Inventorship on Form 5
- (f) Power of Authority Form 26
- (g) Request for Early Publication on Form 9
- (h) Request for Examination on Form 18

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Dated this: November 15, 2022.

ON BEHALF OF APPLICANT

Signature:

Name: Anuj Raturi [IN/PA: 4266]

(AGENT FOR THE APPLICANT)

To.

The Controller of Patents

a) Signature(s)

b) Name(s) of the signatory

The Patent Office, at New Delhi, Mumbai, Kolkata, Chennai

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (\checkmark)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule!;

THE PATENTS ACT, 1970 (39 of 1970) & The Patents Rules, 2003

COMPLETE SPECIFICATION (See section 10 and rule 13)

Title: AN IMPROVED AIR VENTILATOR

Applicant(s):

Name: J B INSTITUTE OF TECHNOLOGY

Nationality: Indian

Address: 23 Milestone, NH-07, Chakrata Road, Shankarpur, Dehradun, Uttarakhand,

India.

PREAMBLE TO THE DESCRIPTION:

The following specification particularly describes the invention and the manner in which it is to be performed.

FIELD OF INVENTION:

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The present invention relates to the field of an air ventilator. More specifically, the air ventilator of present invention provides an apparatus for evacuating hot air to provide an ideal condition for room cooling devices.

BACKGROUND OF THE INVENTION:

The following background discussion includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

From decades, room ventilators (small window nearby ceiling) are being used for room ventilation. These ventilators provide cross ventilation inside a living area. Principally, these ventilating opening work on natural convection. Inside a room, fresh air enters from window or door and after getting heated escaped via ventilating window. So, living area produce a breathing phenomenon by using ventilating windows.

Conventional ventilating windows used in rooms for ventilating air are rarely being used in present day because of less efficiency due to its size and less air movement inside the room.

In summer season, hot air accumulates below the ceiling if roof is exposed to solar radiation. Solar radiation conducted through roof

thickness and converts ceiling into a hot surface. When cold air comes in contact with this surface, it gets heated and trapped below the ceiling.

If there is no ventilating opening available nearby ceiling, it would be difficult for hot air to escape out. So hot air starts accumulating below the ceiling. In case of ceiling fan, if there is hot air trapped below the ceiling, it will blow downward during the operation of fan. This will cause discomfort in the living space. Similarly, if we are using air conditioner and there is hot air available inside the room, AC will take more time to cool the living room. There will be an additional burden on the AC, which will increase AC load. The proposed device will help to reduce this problem, and will result an ideal condition for ceiling fan, AC and other room cooling devices

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Exhaust fans are being used from decades for indoor air ventilation; these ventilating fans are common in kitchen, bathrooms and store etc.; however, these fans are rarely used in living room application because of high power consumption and heavy suction which provides discomfort to the users.

Ceiling diffusers are also available in market for room ventilation. These devices are installed on the ceiling and they induce room stale air and reject it to atmosphere. Special type of ceiling (fall ceiling) is being constructed to install these diffusers. Installing diffuser directly on the RCC ceiling is not recommended due to high cost of fall ceiling.

US patent 5,050.667 provides an air ventilation and heat exchange apparatus, which exchange stale room air with atmospheric air. The apparatus having fitted with heat storing matrix along with reverse flow duct design. The provided apparatus is complicated and costly.

- U. S. Patent 5,632,334 provides a heat recovery ventilator with room air defrosting features. The apparatus/device is transferred heat between two different air flows. Defrosting of air is also being used by stale air. The provided complex design of the device only exchange heat which taking place between two flows.
- 10 **U. S. Patent No. 6,120,247**, provides a room cooling fan apparatus and relates generally to cooling and heating of circulating air in a room. This device works incorporation with ceiling fan. A fluid reservoir and thermo electric cooler is being used to cool the fluid in the reservoir. Overall function of the provided device similar to a room cooler and heater.
- U. S. Patent No. 8,257,058 B2 provides an electric ventilator with unit for controlling speeds located in a container surrounding with motor. More specifically, it provides electric ventilator for heating and air conditioning unit of room or vehicle cabin. This invention is free from damage of resister, from electrical control circuit, caused by shock and vibration. It is also safe from dirt, dust and liquid etc. The provided invention is improved version of electric ventilator which concerned with vibration, shock, dirt, liquid etc. The invention does not provide any ideal condition for a room to work so cooling devices work efficiently.

Hence there is need of such device which ejects hot air from the room, trapped below the ceiling and providing ideal conditions for room comfort devices like ceiling fan, air conditioner and wall fan etc. Further, maintaining room freshness, reducing indoor pollutants, with negligible negative room air pressure, green and sustainable with compact, beautiful and elegance features so it will not affect the beauty of wall.

OBJECT OF THE INVENTION:

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Primary object of the present invention is to overcome the limitation of prior art.

Another object of the present invention is to provide an apparatus for evacuating hot air inside a room accumulated at the lower part of ceiling.

Yet another object of present invention is to provide an apparatus for evacuating hot air inside a room and provide an ideal condition for room for efficiently working of devices like ceiling fan, wall fan, air conditioner etc.,

Yet another objective of present invention is to provide an apparatus and method which is helpful in expelling stale room air and toxic gases outside the room.

Yet another objective of present invention is to provide an apparatus for maintaining room freshness.

Yet another object of the present invention is to provide an apparatus which can be operated with the solar as well as electricity or storing solar power in batteries.

Yet another object of the present invention is to provide an apparatus for evacuating air which does not affect the room pressure.

SUMMARY OF THE INVENTION:

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Before present the apparatus described in the present disclosure, it is understood that the invention is not limited to the particular units/embodiments described, as there can be multiple possible embodiments of the present invention which are not expressly illustrated in the present disclosure. It can also be understood that the terminology used in the description is for the purpose of describing the particular versions or embodiments only, and it is not intended to limit the scope of the present invention which will be limited only by the appended claims.

The present_invention_evacuate the hot air trap inside the room mainly during the summer season which further help to room cooling devices (like ceiling fan, air conditioner and air cooler etc.) to work efficiently.

In an aspect of the present invention there is provided an apparatus for evacuating hot air from an interior to exterior of a room and installed at near to ceiling of the said room comprising:

a) at least an indoor unit, facing the interior the room where the said indoor unit comprising, a rectangular frame (1) as a base for fitting, plurality of rectangular grill'(2)having space in between to flow air, a control/display panel (6) configured to plurality of indicator (3,4,5) for indicating operating power of the said apparatus; and where said rectangular grill(2) are fitted with a movable lever/s (28,29) and configured to move up and down with a rotating means (30,31) fixed with said frame(1) and configure to projecting the rectangular bar in an angle, and an upper (32)and lower mounting (33) of the said unit fixed with the plurality of mounting means(34);

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b) at least an intermediate unit, configure to induce hot air from the lower part of the ceiling, having an enter and exit side and where said enter side connected with said indoor unit and where the said intermediate unit comprising; a first (17,12, 43) and second rectangular frame (14,21, 44) having plurality of holes (24) and (22) on the first and second frame for connecting the said indoor unit with the mounting means (34) and wherein the second rectangular frame fitted inside the first (17,12, 43) rectangular frame; and plurality of fans, at least three fan (18, 19, 20) fixed on a base plate (15) and mounting (23), connecting the second rectangular frame; and

wherein a hook (16) attached with the first rectangular frame (17,12,43) to pull out the said intermediate unit in case of

emergency; and a pair of mesh frame(7, 25) configured to close the said enter and exit side of the intermediate unit and fixed on second rectangular frame (21) with said hole (22) with mounting means (10);

c) at least an outdoor unit configured to facing exterior of the room and connected with exit side of said intermediate unit and comprising frame (39,42,35) as a base for fitting plurality of rectangular grill (36) having space in between and fixed with the said frame and a hole (38) for passing a rope (37) connected with the hook (16) of said intermediate unit where the said rope configured to pull out the said intermediate unit in case of emergency;

Wherein said apparatus ejecting/evacuating accumulated hot air in the room from interior to exterior and to provide an efficient environment for cooling devices inside the room.

BRIEF DESCRIPTION OF THE DRAWINGS:

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The accompanying drawings, which are incorporated in and constitute a part of this disclosure, illustrate exemplary embodiments and, together with the description, explain the disclosed principles. The reference numbers are used throughout the figures to describe the features and components. Some embodiments of ,system and/or methods in accordance with embodiments of the present subject matter are now described, by way of example only, and regarding the accompanying figures, in which

- **FIG. 1:** illustrates the front view of indoor unit as an embodiment of the present invention.
- **FIG. 2:** illustrate the cross-sectional side view of indoor unit as an embodiment of the present invention.
- FIG. 3: illustrate the front view of intermediate unit as an embodiment of the present invention.
 - **FIG. 4:** illustrate the cross-sectional side view of intermediate unit as an embodiment of the present invention.
- FIG. 5: illustrates the enter side mesh of the intermediate unit as accordance to an exemplary embodiment of the present invention.
 - **FIG. 6:** illustrates the exit side mesh of the intermediate unit as accordance to an exemplary embodiment of the present invention.
 - **FIG. 7:** illustrate the embodiments of outdoor unit as accordance to the present invention.
- FIG. 8: illustrate the cross-sectional side view of outdoor unit as accordance to the present invention.

DETAILED DESCRIPTION OF THE INVENTION:

In the present document, the word "exemplary" is used herein to mean "serving as an example, instance, or illustration." Any embodiment or implementation of the present subject matter described herein as

"exemplary" is not necessarily to be construed as preferred or advantageous over other embodiments.

While the disclosure is susceptible to various modifications and alternative forms, specific embodiment thereof has been shown by way of example in the drawings and will be described in detail below. It should be understood, however that it is not intended to limit the disclosure to the specific forms disclosed, but on the contrary, the disclosure is to cover all modifications, equivalents, and alternative falling within the spirit and the scope of the disclosure.

The terms "comprises", "comprising", "includes", or any other variations thereof, are intended to cover a non-exclusive inclusion, such that a setup, device or method that comprises a list of components or steps does not include only those components or steps but may include other components or steps not expressly listed or inherent to such setup or device or method. In other words, one or more elements in a system or apparatus proceeded by "comprises... a" does not, without more constraints, preclude the existence of other elements or additional elements in the system or method.

The present invention discloses an apparatus for evacuate the hot air trap inside the room mainly during the summer season which further help to room cooling devices (like ceiling fan, air conditioner and air cooler etc.) to work efficiently.

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In an aspect of the present invention, there is provided an apparatus for evacuating hot air from an interior to exterior of a room and installed at near to ceiling of the said room. In an embodiment the apparatus comprising:

- a) at least an indoor unit, facing the interior the room where the said indoor unit comprising, a rectangular frame (1) as a base for fitting, plurality of rectangular grill (2) having space in between to flow air, a control/display panel (6) configured to indicate plurality of indicator (3,4,5) for operating power of the said apparatus; and said rectangular grill(2) are fitted with a movable lever/s (28,29) and configured to move up and down with a rotating means (30,31) fixed with said frame(1) and configure to projecting the rectangular bar in an angle, and an upper (32)and lower mounting (33) of the said unit fixed with the plurality of mounting means(34);
 - b) at least an intermediate unit, configure to induce hot air from the lower part of the ceiling, having an enter and exit side and where said enter side connected with said indoor unit and where the said intermediate unit comprising; a first (17,12, 43) and second rectangular frame(14,21, 44) having plurality of holes (24) and (22) on the first and second frame for connecting the said indoor unit with the mounting means (34) and wherein the second rectangular frame fitted inside the first (17,12, 43) rectangular frame; and plurality of fans, at least three fan (18, 19, 20) fixed on

a base plate (15) and mounting (23), connecting the second rectangular frame; and

wherein a hook (16) attached with the first rectangular frame (17,12,43) to pull out the said intermediate unit in case of emergency; and a pair of mesh frame(7, 25) configured to close the said enter and exit side of the intermediate unit and fixed on second rectangular frame (21) with said hole (22) with mounting means (10);

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c) at least an outdoor unit configured to facing exterior of the room and connected with exit side of said intermediate unit and comprising frame (39,42,35) as a base for fitting plurality of rectangular grill (36) having space in between and fixed with the said frame and a hole (38) for passing a rope (37) connected with the hook (16) of said intermediate unit where the said rope configured to pull out the said intermediate unit in case of emergency;

Wherein said apparatus ejecting/evacuating accumulated hot air from interior to exterior and provide an efficient environment for cooling devices inside the room.

In an embodiment, the apparatus is operated by solar or AC or DC power source.

In an embodiment, the indicator (3,4,5) comprises the lights indication for operating power of the said apparatus wherein the indicator (3)

shows the solar power(3), indicator (5) shows the AC power and indicator (5) shows the DC (5) power operated.

In an embodiment, rectangular grill (2) of the indoor unit configured to maintained an angle from the horizontal and wherein the said angle comprises equal or less than 20 degree from the horizontal.

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In an embodiment, the mesh frames (7, 25) prevents of the intermediate unit from insects, lizards and dust.

In an embodiment, fans of the intermediate unit comprise low suction having 200 to 300 m3/h. All fans of the said unit can be work on solar power or solar batteries

In an embodiment, the base plate (15) of, said intermediate unit welded with the vertical side of the second rectangular frame (14,21,44) and situated at a distance from the horizontal side of the second rectangular frame (14,21,44). In an exemplary embodiment base plate (15) situated half inches above the lower sheet/second frame (14) of the casing and welded on the side walls (43) of the second frame of the casing.

In an embodiment, second rectangular frame of intermediate unit comprises a slope for draining water outside in case of cross rain.

In an embodiment, fans of the intermediate unit work on a constant RPM and wherein the said fans impel hot as well stale air from the room.

In an embodiment, a very low power fans are used with mild suction. Due to low power fan it can be easily operated on solar power which provides this apparatus a green feature. Device can also run on electricity and stored power in a battery by solar power.

In an embodiment, as per the size of the room, device can be of different size or we can use two units also.

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In an embodiment apparatus can expel hot air outside the room by cross ventilation method, even after the device fan is not working. But cross ventilation process can be slowdown, if there is no or slow circulation of air from window or door to ventilating window. For immediate effect device fans needs to be operated.

In an embodiment, the apparatus helps room cooling devices like fans and air conditioner by producing ideal conditions for room cooling devices so that they can produce desired effect. Using present invention efficiency of room cooling devices can be increased.

In a preferred embodiment, referring to **FIG. 1** shows the front view of the indoor unit of the present invention. The indoor unit comprises frame (1) of the, as a base for fitting rectangular grill or leaf (2) and a control panel (6) and displaying various indicator (3, 4, 5) for indicating light for solar power, battery power, electric power respectively.

In a preferred embodiment, **FIG. 2**, showing the cross-sectional side view of indoor unit, and provide a movable levers 28 and 29 can move up and down with the help of attached rotating mechanism at 30 and 31 respectively. Levers 28 and 29 are fixed with rectangular bars / leafs 2.

By moving levers 28 and 29, leaf 2 angle can be varied. The upper and lower mounting 32 and 33 of the indoor unit are welded on the frame 1. Using identical bolt/ mounting means 34, frame 1 can be fixed on the wall with the help of 32 and 33.

In a preferred embodiment, referring to figure 3 shows the front view of intermediate unit. In an embodiment, 12 and 17 are representing the upper and lower frame of the first rectangular frame of the said intermediate unit and 21 and 14 are representing the upper and lower frame of the second rectangular frame of the said intermediate unit which is inside of first frame 12 and 17. Three identical fan units 18,19, 20 are fixed on the base plate 15 with the help of mounting 23. There are total six mounting 23, which is fixing fan units 18, 19, 20 in between 21 and 15. 24 is the threaded hole for connecting indoor unit with intermediate unit with the help of bolt 34.

In a preferred embodiment, Figure 4 shows the cross-sectional side view of intermediate unit. The intake side mesh (7) and exit side mesh (25) fixed at the intake and exit side of the intermediate unit with the help of identical bolt (10). These two meshes are bolted on frame (21) and (14). Threaded hole (22) on frame 21 and 14 are being provided to pass the bolt (10) in it. 11 shows the fan blade of fan units (18,19,20). A hook (16) welded with frame (17), it is being introduced to attach a rope (37) on it, so that intermediate unit can be pulled out during fire or any other emergency.

In preferred embodiment referring to FIG. 5, shows the front side mesh (7) and (8) representing frame of intake side mesh and 9 showing threaded hole for passing the bolt (10).

In preferred embodiment FIG. 6, displaying exit side mesh. In this embodiment, numeral (25) representing the mesh, (26) representing frame of exit side mesh and (27) showing threaded hole for passing the bolt (10).

In preferred embodiment figure 7, shows the front side of outdoor unit or external unit. In this embodiment numeral 35 representing upper half of the rectangular frame, while 39 representing lower half of the frame. 36 is displaying leaf of grill and all the leaf are tightly fixed with side wall of frame. A central support 37 is being introduced to prevent leaf from sagging during cleaning operation. Numeral 38 is a hole for passing a rope, which will further attach with hook 16.

In preferred embodiment figure (8), shows the cross-sectional side view of outdoor unit. In this embodiment numeral (40) is a mounting welded on frame (35 and 39). These mountings are being used to attach external unit with intermediate unit with the help of bolts (41). The frame (39) is inclined at some angle.

20 ADVANTAGES:

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The main advantage of present invention is to maintain room freshness by removing stale room air.

Another advantage of present invention is to evacuate fumes and gases produced by human activities. In case of room fire, present art can be helpful in evacuating gases outside the room.

Although the main application of invention is to create an ideal condition for room cooling devices in summer season but can be used whole year, for maintaining room freshness.

In case of using air conditioner (AC), present apparatus can be used prior the operation of AC further continuous AC operation, present device can be used for shorter duration which can improve indoor air quality.

Dated this: November 15, 2022.

ON BEHALF OF APPLICANT

Signature:

Name: Anuj Raturi [IN/PA: 4266]

We claim:

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- 1. An improved air ventilator comprising:
 - a. at least an indoor unit, facing the interior the room where the said indoor unit comprising, a rectangular frame (1) as a base for fitting, plurality of rectangular grill (2)having space in between to flow air, a control/display panel (6) configured to indicate plurality of indicator (3,4,5) for indicating operating power of the said apparatus; and where said rectangular grill(2) are fitted with a movable lever/s (28,29) and configured to move up and down with a rotating means (30,31) fixed with said frame(1) and configure to projecting the rectangular bar in an angle, and an upper (32)and lower mounting (33) of the said unit fixed with the plurality of mounting means(34);
 - b. At least an intermediate unit, configure to induce hot air from the lower part of the ceiling, having an enter and exit side and where said enter side connected with said indoor unit and where the said intermediate unit comprising; a first (17,12, 43) and second rectangular frame(14,21, 44) having plurality of holes (24) and (22) on the first and second frame for connecting the said indoor unit with the mounting means (34) and wherein the second rectangular frame fitted inside the first (17,12, 43) rectangular frame; and plurality of fans, at least three fan (18, 19, 20) fixed on a base plate

(15) and mounting (23), connecting the second rectangular frame; and wherein a hook(16) attached with the first rectangular frame (17,12,43) to pull out the said intermediate unit in case of emergency; and a pair of mesh frame(7, 25) configured to close the said enter and exit side of the intermediate unit and fixed on second rectangular frame (21) with said hole (22) with mounting means (10);

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- c. At least an outdoor unit configured to facing exterior of the room and connected with exit side of said intermediate unit and comprising frame (39,42,35) as a base for fitting plurality of rectangular grill (36) having space in between and fixed with the said frame and a hole (38) for passing a rope (37) connected with the hook (16) of said intermediate unit where the said rope configured to pull out the said intermediate unit in case of emergency; wherein said apparatus ejecting/evacuating accumulated hot air from interior to exterior and to provide an efficient environment for cooling devices inside the room.
- 2. The apparatus as claimed in claim 1 wherein the said apparatus operated by solar or AC/DC power source.
 - 3. The apparatus as claimed in claim 1, wherein said indicator (3, 4,5) comprises the lights indication for operating power of the said apparatus wherein the indicator (3) shows the solar power(3),

indicator (5) shows the AC power and indicator (5) shows the DC (5) power operated.

- 4. The apparatus as claimed in a claim 1 wherein the said rectangular grill(2) of the indoor unit configured to maintained an angle from the horizontal and wherein the said angle comprises equal or less than 20 degree from the horizontal.
- 5. The apparatus as claimed in claim 1 wherein the said fans of the intermediate unit comprises low suction having 200 to 300 m3/h.
- 6. The apparatus as claimed in claim 1 wherein the base plate (15) of said intermediate unit welded with the vertical side of the second rectangular frame (14,21,44) situated at a distance from the horizontal side of the second rectangular frame (14,21,44).
- 7. The apparatus as claimed in claim I wherein the said second rectangular frame of intermediate unit comprises a slope for draining water outside in case of cross rain.

Dated this: November 15, 2022.

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ON BEHALF OF APPLICANT

Signature:

Name: Anuj Raturi [IN/PA: 4266]

ABSTRACT

Title: AN IMPROVED AIR VENTILATOR

The present relates to an improved air ventilator to evacuate hot air trapped inside the room, specifically during the summer season. The apparatus comprises at least an indoor unit, an intermediate unit, and an outdoor unit, wherein in integrated form all said units eject or evacuate accumulated hot air from the room to the atmosphere and provide an ideal condition for cooling devices inside the room.

Dated this: November 15, 2022.

ON BEHALF OF APPLICANT

Signature:

Name: Anuj Raturi [IN/PA: 4266]

THE PATENTS ACT. 1970 (39 of 1970)

and

THE PATENTS RULES, 2003

STATEMENT AND UNDERTAKING UNDER SECTION 8

		(See section 8:			
ldiress of t	he applicant(s).	VILLAGE SHAND Uttarakhand, 24819 (i) that we who have 16/11/2022 alone.	KARPUR, CH. 77, Indja hereby 7e made this Ap 1made for the s	AKRATA ROAL declare: plication No. 202 ame/ substantially	D, DEHRADUN, 211dated y same invention.
Date of	Application	Application No.	Status of	Date of	Date of Grant
	I	letails attached as A		President in	1
e assignee	<u>x</u>	INSTITUTE OF T of grant of the pater writing the details r outside India with application.	ECHNOLOGY Int by the Control Regardling corresp In six months	that we undertake ller, we would kee onding application	that up to the date p him informed in ns for patents filed
3. To be signed by the applicant or his authorized registered patent agent.		Nam	e: Anuj Raturi	IN/PA: 4266]	
ne mantural j					
	Date of	e assignee	We. J B INSTITU VILLAGE SHAND Uttarakhand, 24819 (i) that we who have 16/11/2022 allone, application(s.) for pargivem below: Date of Application Details attached as All (ii) that the rights. INSTITUTE OF Tool grant of the pater writing the details in outside India with application. Dated this: November of registered patent. Dated this: November of registered patent.	VILLAGE SHANKARPUR, CHA Uttarakband, 248197, Indja hereby (i) that we who have made this Ap 16/11/2022 alone, made for the s application(s) for patent in the other o given below: Date of Application Details attached as ANNEXURE (ii) that the rights in the application INSTITUTE OF TECHNOLOGY of grant of the patent by the Control writing the details regarding corresp outside India within six months application. Dated this: November 15, 2022.	We. J B INSTITUTE OF TECHNOLOGY of the VILLAGE SHANKARPUR, CHAKRATA ROAL Uttarakhand, 248197, Indja hereby declare: (i) that we who have made this Application No. 202. 16/11/2022 alone, made for the same/ substantially application(s) for patent in the other countries, the parting given below: Date of Application Application No. Status of Application Details attached as ANNEXURE (ii) that the rights in the application(s) has/have bee INSTITUTE OF TECHNOLOGY that we undertake of grant of the patent by the Controller, we would kee writing the details regarding corresponding application outside India within six months from the date of application. Dated this: November 15, 2022.

ANNEXURE TO FORM-3

Title of Invention: AN IMPROVED AIR VENTILATOR

Application No. 202211_____Filed on: 16/11/2022

Applicant(s): J B INSTITUTE OF TECHNOLOGY

Country	Application date	Application No.	Status of the Application	Date of Pub. // Pub. Number	Date of grant // Grant Number
N/A	N/A	N/A	N/A	N/A	N/A

*N/A (Not applicable)

Dated this: 15th day of November, 2022.

Name: Anuj Raturi [IN/PA: 4266]

Signature:

THE PATENTS ACT, 1970 (39 of 1970) &

THE PATENT RULES, 2003 DECLARATION AS TO INVENTORSHIP

[See Section 10(6) and Rule 13(6)]

We, J B INSTITUTE OF TECHNOLOGY having institution address at NH-72, VILLAGE SHANKARPUR, CHAKRATA ROAD, DEHRADUN, UTTARAKHAND, 248197. INDIA, hereby declare that the true and first inventors of the invention disclosed in the complete specification filed in pursuance of our Application Titled "AN IMPROVED AIR VENTILATOR" are:

Name: Dr. B. K. Singh

Nationality: Indian

Address: Department of Electrical Engineering. J B Institute of Technology.

Name: Dr. Vibhutesh Kumar Singh

Nationality: Indian

Address: Department of Electrical Engineering. J B Institute of Technology.

Dated this: November 15, 2022.

Signature & Name:

The Patent ACT, 1970 (39 of 1970) &
The Patents Rule, 2003

Request for Publication

|See section 11A (2), Rule 24A|

1.	Name, address and nationality of the applicants:	We, J B INSTITUTE OF TECHNOLOGY Address: NH-72, VILLAGE SHANKARPUR, CHAKRATA ROAD, DEHRADUN, Uttarakhand, 248197 India. Nationality: Indian
2.	To be signed by the applicant or his authorized registered patent agent	Hereby request for early publication of our application Titled: "AN IMPROVED AIR VENTILATOR" filed herewith under section I I A(2) of the Act.
3.	Name of the natural person who signed.	Signature: 323 Name: Anuj Raturi [IN/PA: 4266]
A manufacture of the state of t	Dated this: November 15, 2022.	(AGENT FOR THE APPLICANT)

THE PATENT ACT, 1970 (39 OF 1970) & THE PATENTS RULES, 2003

TO BE SUBMITTED BY AN EDUCATIONAL INSTITUTION

[See rules 2 (ca) and 7]

We, J B INSTITUTE OF TECHNOLOGY have	ving Nationality of India of the address-
NH-72, VILLAGE SHANKARPUR, CI	HAKRATA ROAD, DEHRADUN,
Uttarakhand, 248197, India. Applicant in res	spect of the patent application titled "AN
IMPROVED AIR VENTILATOR" & applicat	tion no.202211,
hereby declare that we are an educational insti- submit the following document(s) as proof;	tution in accordance with rule 2(ca) and
i) Certificate/proof of university recognized un	nder/Central/State government.
The information provided herein is correct to t	he best of our knowledge and belief.
Dated this: November 11, 2022.	
	Signature: 3738
	Name: Anuj Raturi [IN/PA: 4266]

(AGENT FOR THE APPLICANT)

To,

The Controller of Patents,

The Patent Office, at Delhi.

THE PATENT ACT, 1970 (39 OF 1970) & THE PATENTS RULES, 2003

TO BE SUBMITTED BY AN EDUCATIONAL INSTITUTION

[See rules 2 (ca) and 7]

having Nationalit	y of India	a of the address-
CHAKRATA	ROAD,	DEHRADUN,
respect of the pate	ent applic	ation titled "AN
ication no.202211		
nstitution in accor	dance wi	th rule 2(ca) and
under/Central/Sta	ate gover	nment.
to the best of our l	knowledg	e and belief.
,		
		,
Signatu	re: 30	34
i	CHAKRATA respect of the pate cation no.202211 astitution in accordance under/Central/State to the best of our land.	having Nationality of India CHAKRATA ROAD, respect of the patent applic cation no.202211, astitution in accordance with under/Central/State govern to the best of our knowledge , Name: Anuj Ratu

(AGENT FOR THE APPLICANT)

To,

The Controller of Patents,

The Patent Office, at Delhi.

All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)





APPROVAL PROCESS 2022-23

Extension of Approval (EoA)

F.No. Northern/1-10968838042/2022/EOA

Date: 29-Jul-2022

To,

The Secretary(Technical Education)
Govt. of Uttarakhand, Dehradun Sectt.,
4 Subhash Road, Dehradun-248001

Sub: Extension of Approval for the Academic Year 2022-23

Ref: Application of the Institution for Extension of Approval for the Academic Year 2022-23

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, 2022 Notified on 4th February, 2022 and amended on 24th February 2022 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-8461364	Application Id	1-10968838042	
Name of the Institution	J B INSTITUTE OF TECHNOLOGY	Name of the Society/Trust	JAI BHAGWAN EDUCATIONAL SOCIETY	
Institution Address	NH-72, VILLAGE SHANKARPUR, CHAKRATA ROAD, DEHRADUN, DEHRADUN, DEHRADUN, Uttarakhand, 248197	, Society/Trust Address	17 MANDIR MARG, VASANT VIHAR ENCLAVE DEHARDUN, DEHRADUN, DEHRA DUN, Uttarakhand, 248001	
Institution Type	Private-Self Financing	Region	Northern	
Year of Establishment	2009		I.	

Opted for Introduction of New Program/Level	Introduction of Program/Level Approved or Not	Approved
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To conduct following Courses with the Intake indicated below for the Academic Year 2022-23

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2021-22	Intake Approved for 2022-23	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
DIPLOMA	ENGINEERI NG AND TECHNOLO GY	CIVIL ENGINEERING	Directorate Of Technical Education, Srinagar(Garhwal)	60	60	No	No
DIPLOMA	ENGINEERI NG AND TECHNOLO GY	ELECTRICAL ENGINEERING	Directorate Of Technical Education, Srinagar(Garhwal)	60	60	No	No

Level.	Program	Course 1	Aftiliating Body (University (Body)	Intiake Approved for 2021-22	Intalle Approved for 2022-23	MRI Approval Status	FNI/ Gulf quota/ OCI/ Approval Status:
DIPLOMA	ENGINEERI NG AND TECHNOLO GY	MECHANICAL ENGINEERING	Directorate Of Technical Education, Srinagar(Garhwal)	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Uttarakhand Technical University. Dehradun	60 ,	30	NA	NA
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	CIVIL ENGINEERING	Uttarakhand Technical University, Dehradun	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	COMPUTER SCIENCE & ENGINEERING	Uttarakhand Technical University, Dehradun	60	90	NA	NA .
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	ELECTRICAL ENGINEERING	Uttarakhand Technical University, Dehradun	30	30	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	ELECTRONICS & COMMUNICATIO N ENGG	Uttarakhand Technical University, Dehradun	30	30	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	MECHANICAL ENGINEERING	Uttarakhand Technical University, Dehradun	60	60	No	No
POST GRADUATE	ENGINEERI NG AND TECHNOLO GY	COMPUTER SCIENCE & ENGINEERING	Uttarakhand Technical University, Dehradun	24	24	No	No
POST GRADUATE	MANAGEM ENT	MBA	Uttarakhand Technical University, Dehradun	0	60##	No	No

Approved New Course(s)

Important Instructions

- 1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC (NCL)/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years.
- 2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2022-23 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutions/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE beginning with the Academic Year 2022-23
- 3. Strict compliance of Anti-Ragging Regulation, Establishment of Committee for SC/ ST, Establishment of Internal Complaint Committee (ICC), Establishment of Online Grievance Redressal Mechanism, Barrier Free Built Environment for disabled and elderly persons, Fire and Safety Certificate should be maintained as Approval Process Handbook and provisions made in AICTE Regulation notified from time to time.
- 4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Pharmacy Institute: In compliance with the order dated 05.03.2020 passed by the Hon'ble Supreme Court of India in Transferred Petitions (CIVIL) No 87-101 of 2014, for the existing institutions offering courses in Pharmacy Programme, approval of Pharmacy Council of India (PCI) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per the respective regulatory body (PCI). In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by PCI, the approval of PCI shall prevail.

Architecture Institute: In compliance with the order dated 08.11.2019 passed by the Hon'ble Supreme Court of Indian CA No.364/ 2005, for the existing Institutions offering Courses in Architecture Programme, approval by the Council of Architecture (CoA) is mandatory and AICTE approval is NOT required. The requirements for running the Programme (Diploma / UG / PG) such as Land & Build-up Area, Student-faculty ratio, Intake etc. will be as per respective regulatory body (CoA). In case of any inconsistency in the course name and intake for EoA issued by AICTE and the approval by CoA, the approval of CoA shall prevail.

Deemed to be University: Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.

Prof.Rajive Kumar Member Secretary, AICTE

Copy to:

- 1. The Director Of Technical Education**, Uttarakhand
- The Registrar**,
 Directorate Of Technical Education, Srinagar(Garhwal)
- The Principal / Director,
 J B INSTITUTE OF TECHNOLOGY
 Nh-72, Village Shankarpur, Chakrata Road, Dehradun,
 Dehradun,Dehradun,
 Uttarakhand,248197
- 4. The Secretary / Chairman,
 17 MANDIR MARG, VASANT VIHAR ENCLAVE
 DEHARDUN
 DEHRADUN, DEHRADUN

Uttarakhand,248001

The Regional Officer, All India Council for Technical Education Govt. Polytechnic Campus Adjoining Directorate of Technical Education Vikas Nagar, Kanpur-208 002, Uttar Pradesh

6. Guard File(AICTE)

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

This is a computer generated Statement. No signature Required

^{**} Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.



प्रेषक.

डा॰ रंजीत कुमार सिन्हा सचिव श्री राज्यपाल / फुलाधिपति।

संवा में

कुलपित, बीर माधौ सिंह मण्डारी चल्तराखण्ड प्रौद्योगिकी विश्वविद्यालय, सुद्रोवाला, देहरादून।

राज्यपाल / कुलाधिपति सचिवालय उत्तराखण्ड :

ंदेहरादून : दिनांक : 3 अक्टूबर, 2022

महोदय,

कृपया विश्वविद्यालय के पत्र सं०—2052 व 2055, दिनांक 07—01—2022 का सन्दर्भ ग्रहण करने का कष्ट करें।

उपरोक्त सन्दर्भ के सम्बन्ध में मुझे यह कहने का निदेश हुआ है कि नियामक संस्था, निरीक्षण मण्डल, कुलपति व कुलसिवव, वी०मा०सिं०भ० उत्तरखण्ड प्रौद्योगिकी विश्वविद्यालय द्वारा प्रदल्त सस्तुति के दृष्टिगत विश्वविद्यालय अधिनियम, 2005 (यथा अद्यतन संसोधित) की धारा-24(2) के अधीन निम्नवत् संस्थान को उसके सम्मुख वर्णित पाट्यक्रम, सीटों एवं अविध की अस्थाई सम्बद्धता विस्तारण हेतु छात्रहित में माठ कुलाधिपति द्वारा पूर्वानुमोदन निम्नवत् उपवन्धों के साथ प्रदान किया गया है :--

संस्थान का नाम	पाठ्यक्रम	सीट संख्या प्रति सत्र	शैक्षिक सत्र 4
1:	2	3	
जेवबीव इंस्टीट्यूट ऑफ टैक्नोलॉजी, ग्राम—शंकरपुर, चकराता रोड, देहरादून	4 5-6	60 60 30 30 60 60	2021–22

- (1) विश्वविद्यालय द्वारा संस्थान की Annual Balance Sheet सम्बन्धी साक्ष्य की सत्यापित प्रति प्राप्त कर इस सचिवालय को उपलब्ध कराई जायेगी।
- (2) प्राभृति राशि अपूर्ण है। अतः उत्तराखण्ड शासन द्वारा शासनादेश दिनांक 14 दिसम्बर. 2016 द्वारा तथा व्यवसायिक पाठ्यक्रमों हेतु प्राभृति राशि के सम्बन्ध में शासन स्तर पर लिये गये निर्णय का पूर्ण रूप से अनुपालन विश्वविद्यालय व संस्थान द्वारा किया जायेगा, उसके अनुपालन की सूचना से इस सविद्यालय को भी अवगत कराया जायेगा।
- (3) विश्वविद्यालय द्वारा छात्र/छात्राओं की गुणवत्ता और व्यवहारिक शिक्षा में सुधार के लिए क्या कदम उठाए गये हैं. इसकी सूचना व संस्थानों द्वारा छात्रों की प्रायोगिक शिक्षा और इंटर्निशिप/विजिट के लिए किन समूहों, विभागों एवं कपनियों के साथ समझौता (Tie-up or MoU) किया गया है, तत्सम्बन्धी अभिलेख एक गाह के भीतर अनिवार्य रूप से इस सविवालय को प्रेषित करना सुनिश्चित करें। अन्यथा की रिथित में संस्थान की सम्बद्धता निरस्त कर दी जाएगी साथ ही अग्रेत्तर सत्रों की सम्बद्धता के सम्बन्ध में कोई विधार नहीं किया जायेगा।

- विकानिहास्त्य संस्थान द्वारा सोसाइटी / इस फ्लीकरण अधिनियम के अन्तर्गत निर्धारित Legal Obligation पूर्ण किये आने क सम्बन्ध में साक्ष्य राहित आख्या एक माह के भीतर राज्यपाल संविवालयं को उपलम्भ कराया जाना मृतिरिचतं विभा जागेगा।
- यदि संस्थान द्वारा एक या एक से अधिक विक्वितिपालय से पाठ्यक्रम की सम्बद्धता प्राप्त की गई हों तो संस्थान समस्त पात्रमकर्मों की सम्बद्धता को एक साथ रखकर पाठ्यक्रमवार मानक पूर्ण कियं जाने के सम्बन्ध में पारका संस्थान द्वारा विकाशिसालय की उपलब्ध कराई जायंगी तथा राल्यान से प्राप्त आऱ्या का परीक्षण करते हुए विभ्वविधालय द्वारा राज्यपाल सवियालय को वयलका
- अंग्रेलार सर्वों के सम्बद्धता प्रस्ताव नियामक संस्था, विश्वविद्यालय एवं गासन द्वारा क्रनाई जावेगी। निर्धारित मानुका के अनुरूप पूर्ण होने की दया में दी स्वीकार किये आयंगे अन्यया की स्थिति में अपूर्ण प्रस्तावो पर विचार नहीं किया जायेगा, जिसका पूर्ण उत्तरचागत्व विश्वविद्यालय का होगा।
- विश्वविद्यालय, नियामक संस्था, विश्वविद्यालय व राज्य संस्कार द्वारा निर्धारित सुनी मानकों के पूर्ण होने की दशा में ही कार्यपरिगद के अनुमोदन से विहित शर्ता/उपवन्धों के अधीन अस्थाई सम्बद्धता विस्तारण के आदेश निर्गत कर व तत्सामन्त्री कार्यवाही की सूबना मा० कुलाबिपति महोदय के अवगतार्थ जगलका करागे।

त्तदनुसार अग्रेत्तर कार्यनाही सुनिधिनत करें।

भवदीय.

(डा० रंजीत कुमार सिन्हा) सचिव श्री राज्यपाल / कुलाविपति।

संख्या—28 52 (1) / जीठएस०(शिक्षा) / A4-48(P-II) /2019 तद्दिनांकित।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेतित .-

- सचिव तकनीकी शिक्षा विभाग, उत्तराखण्ड शासन।
- प्राचार्च / निदराक, संबंधित संस्थान। 2.
- कम्प्यूटर प्रकोप्ट / गार्ड फाईल हेतु। 3.

(स्वाति एस० मदौरिया) अपर सचिव श्री राज्यपाल / कुलाधिपति।

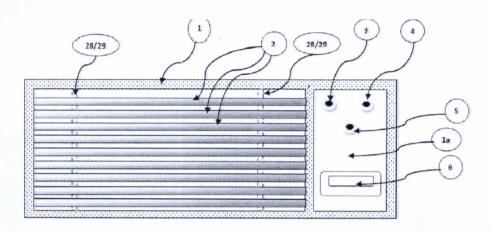


FIG. 1

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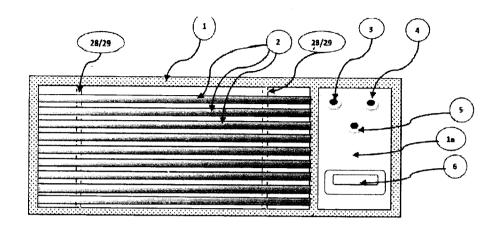


FIG. 1

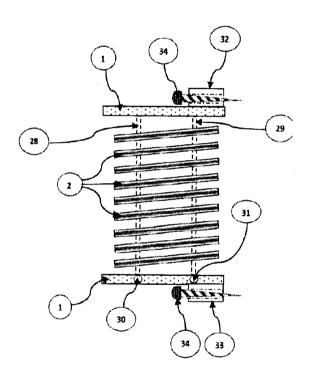


FIG. 2

ON BEHALF OF APPLICANT

Dated: 15th Day of November, 2022

Signature:

Name: Anuj Raturi [IN/PA: 4266]

Total Sheets 04 Sheet no. 2

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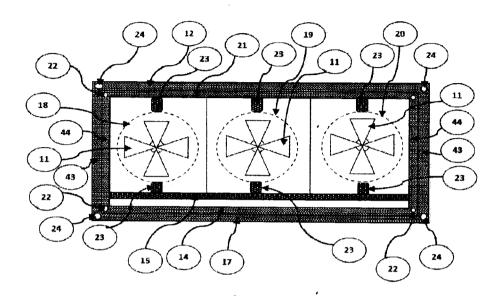
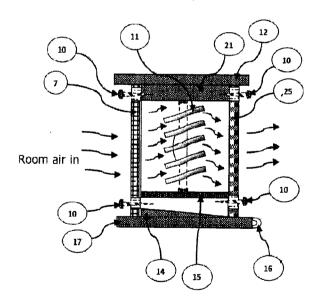


FIG. 3



ON BEHALF OF APPLICANT

FIG. 4

Dated: 00th Day of November, 2022

Signature:

Name: Anuj Raturi [IN/PA: 4266]

J B INSTITUTE OF TECHNOLOGY

Total Sheets 04 Sheet no. 3

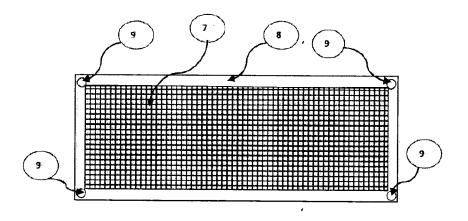


FIG. 5

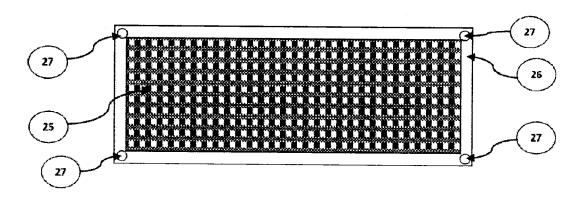


FIG. 6

ON BEHALF OF APPLICANT

Dated: 00th Day of November, 2022

Signature:

Name: Anuj Raturi [IN/PA: 4266]

Applicants:

J B INSTITUTE OF TECHNOLOGY

Total Sheets 04 Sheet no. 4

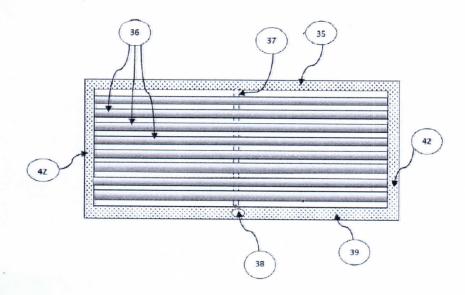
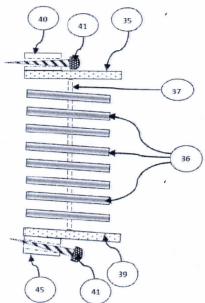


FIG. 7



ON BEHALF OF APPLICANT

FIG. 8

Dated: 15th Day of November, 2022

Signature:

Name: Anuj Raturi [IN/PA: 4266]