

Search query (5): [SP]: An apparatus for measuring airflow through a diffuser of an HVAC system includes a hood for being positioned adjacent the diffuser so that airflow discharged from the diffuser is directed into the hood. The hood is configured to divide and direct the airflow through a plurality of discharge channels. Sensor probes measure the airflow through each discharge channel.

Results: 18

1) Family number: 1018747 (US3685355A)

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Title: AIR MONITORING SYSTEM

Abstract: An air monitoring system is provided for direct measurement of the volume of air flow, and its velocity and pressure in one or a composite of several air ducts. The system includes flow measuring stations which are installed in each duct as a permanent part thereof. Air moving in the duct first passes through a flow straightening section in each station which comprises a honeycomb of short, axially extending passages. Movement of the air through the straightening section eliminates turbulence in the entering air and produces substantially laminar air flow. A plurality of total pressure sensors are positioned in one or more traverses across, immediately adjacent to, and downstream of the straightening section to sense the total pressure of the flowing air. The total pressure values sensed by the several sensors are averaged by a manifold which connects with each of them. The individual total pressure sensors are so distributed as to be at the center of cross-sectional segments of the duct having equal areas. Static pressure at each station is also sensed by static pressure sensing tips, averaged and used with the total pressure to determine air flow. A tube leading directly from a remotely located manometer is connected to the manifold of the total pressure sensors at a point symmetrically arranged with respect to the total pressure sensors.

Classifications:

International (IPC 8-9): G01F1/36 G01F1/40 (Advanced/Invention);
G01F1/34 (Core/Invention)

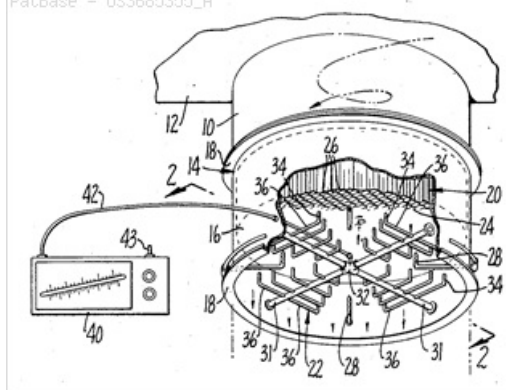
International (IPC 1-7): G01F1/00

CPC: G01F1/36 G01F1/40

European: G01F1/36 G01F1/40

US: 73/861.66

PatBase - US3685355_A



Family:

Publication number	Publication date	Application number	Application date
CA941636 A1	19740212	CA19710107893	19710316
US3685355 A	19720822	US19700027758	19700413

Priority:

US19700027758 19700413

Probable Assignee:

AIR MONITOR CORP

Assignee(s): (std):

AIR MONITOR CORP

Assignee(s):

DEBAUN KENNETH W

Inventor(s): (std):

DEBAUN KENNETH W

Inventor(s):

KENNETH W DEBAUN

2) Family number: 7324137 (US3733900A)

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Title: FAN CAPACITY MEASURING STATION

Abstract: A fan capacity measuring station wherein the fan discharge is first conditioned for accurate flow rate measurement by fixed mixing vanes that break up stratification and negative pressure pockets and by subsequent straightening means that eliminate turbulence and produce substantially laminar air flow through a measuring section of known cross-sectional area. Then in the measuring section total pressure sensors, manifolded in a traverse, average the total pressure and manifolded static pressure sensors average the static pressure. The difference between the average total and static pressure of the conditioned discharge is a direct and accurate measurement of flow rate within ± 1 percent.

Classifications:

International (IPC 8-9): G01F1/40 (Advanced/Invention);
G01F1/34 (Core/Invention)

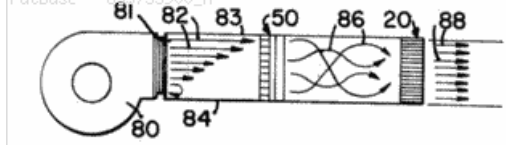
International (IPC 1-7): G01F1/00 G01F1/48

CPC: G01F1/40

European: G01F1/40

US: 138/37 73/168 73/212 73/861.66

PatBase - US3733900_A



Family:

Publication number	Publication date	Application number	Application date
US3733900 A	19730522	US19710201127	19711122

Priority:

US19710201127 19711122

Probable Assignee: AIR MONITOR CORP
Assignee(s): (std): AIR MONITOR CORP
Assignee(s): AIR MONITOR CORP US
Inventor(s): (std): DE BAUN K
Inventor(s): DE BAUN K US

3) Family number: 7399707 (US3748901A)

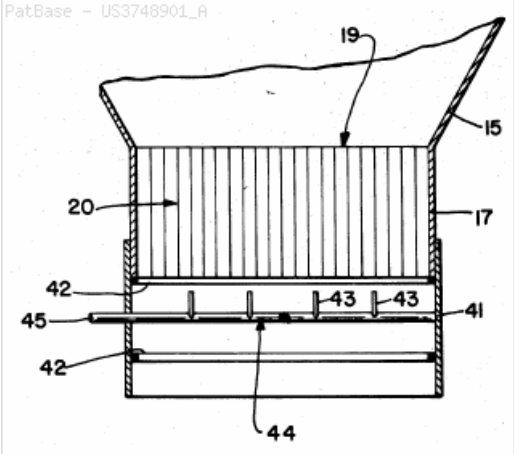
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Title: AIR FLOW BALANCING DEVICE

Abstract: An improved air balancing hood collects air discharged to atmosphere from air diffusers, grilles, etc., such as those used in typical heating, ventilation and air-conditioning systems, in a convergent collection chamber which terminates in an air-straightening neck of known cross-section to eliminate turbulence and thereby achieve substantially laminar air flow for delivery to flow measuring instrumentation. The volume of air passing through the diffuser is directly measured by total pressure measuring means assembled to the hood and calibrated in flow rate units.

Classifications:

International (IPC 8-9): G01F1/40 G01P5/16 (Advanced/Invention);
G01F1/34 G01P5/14 (Core/Invention)
International (IPC 1-7): G01P5/16
CPC: G01F1/40 G01P5/16
European: G01F1/40 G01P5/16
US: 73/212 73/861.66



Family:

Publication number	Publication date	Application number	Application date
US3748901 A	19730731	US19710129769	19710331

Priority:

US19710129769 19710331

Probable Assignee: AIR MONITOR CORP
Assignee(s): (std): AIR MONITOR CORP
Assignee(s): AIR MONITOR CORP US
Inventor(s): (std): DE BAUN K
Inventor(s): DE BAUN K US

4) Family number: 19154866 (US4030358A)

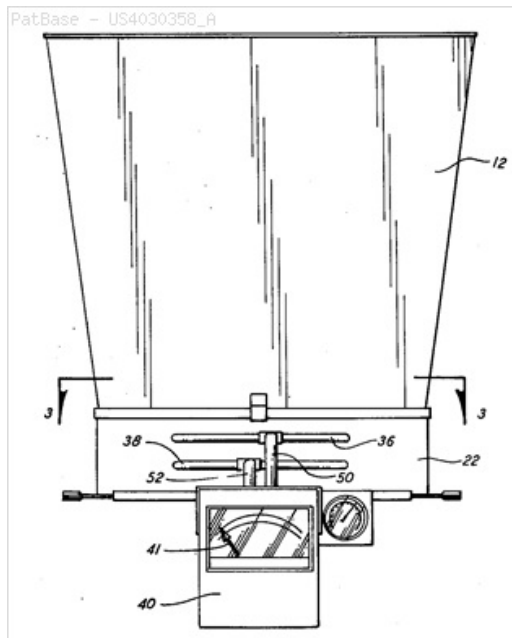
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Title: Portable air velocity measuring unit

Abstract: A unit for measurement of the velocity of air flowing into or out of an opening such as the heating or air conditioning register or grill. An open end of a collecting section is placed over the opening and the air flows through a measuring section at the opposite end of the chamber. The measuring section includes a pair of hollow manifold tubes each having a smaller diameter, hollow sensing tube mounted coaxially therein. Air flows into a plurality of probes communicating with the interior of one manifold tube, into the associated sensing tube, through a velocity meter, through the other sensing tube into the other manifold tube, and out through a second plurality of probes also positioned at the opposite end of the collecting section. An orifice or constriction in the line leading to the flow meter inlet controls the flow and allows for full scale deflection of the meter within a selected range to permit accurate calibration.

Classifications:

International (IPC 8-9): G01F1/00 G01P5/00
G01P5/14 (Advanced/Invention);
G01P5/00 G01P5/14 (Core/Invention)
International (IPC 1-7): G01F1/00 G01F1/20 G01F1/46 G01P5/00
CPC: G01P5/00 G01P5/14
European: G01P5/00 G01P5/14
US: 73/212 73/861.66

**Family:**

Publication number	Publication date	Application number	Application date
CA1059791 A1	19790807	CA19760265178	19761108
DE2646087 A1	19770512	DE19762646087	19761013
DE2646087 B2	19780831	DE19762646087	19761013
DE2646087 C3	19790503	DE19762646087	19761013
DE7631936 U1	19790927	DE19760031936U	19761013
GB1531143 A	19781101	GB19760039067	19760921
JP52058975 A2	19770514	JP19760134234	19761110
JP54015505 B4	19790615	JP19760134234	19761110
JP983539 C3	19800122	JP19760134234	19761110
US4030358 A	19770621	US19750630419	19751110

Priority:

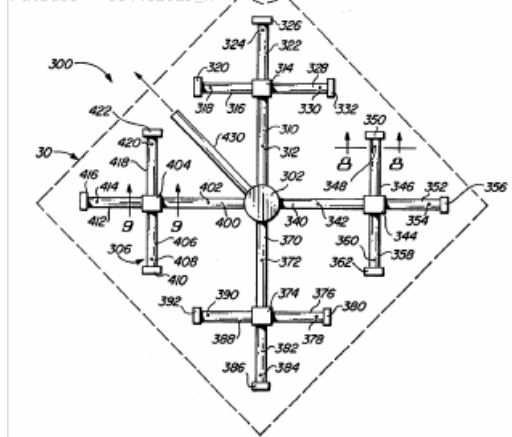
US19750630419 19751110

Probable Assignee: CAMBRIDGE FILTER CORP**Assignee(s):** (std): CAMBRIDGE FILTER CORP**Assignee(s):** CAMBRIDGE FILTER CORP SYRACUSE N Y V ST A ; FARR CO ; GENERAL ELECTRIC CAPITAL CORP ; KENBURITSUJI FUIRUTAA CORP ; NOLL ROBERT W**Inventor(s):** (std): NOLL ROBERT W ; ROBAATO DABURIYU NORU**Inventor(s):** NOLL ROBERT W SANTA ROSA CALIF V ST A ; W NOLL ROBERT**5) Family number: 4552523 (US4481829A)**

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Title: Manifold apparatus for airflow sensing equipment

Abstract: Manifold apparatus for air sensing equipment includes a pair of separate but parallel tubular manifolds, and apertures communicating with the interior of the manifolds are disposed in a predetermined pattern for sensing and averaging the airflow. An apertured plate may be placed over the manifolds to provide a predetermined apparent increase in the flow to the manifold which enables very low flow rates to be measured.

Classifications:**International (IPC 8-9):** G01F1/46 (Advanced/Invention); G01F1/34 (Core/Invention)**International (IPC 1-7):** G01F1/46**CPC:** G01F1/46**European:** G01F1/46**US:** 73/861.66**Family:**

Publication number	Publication date	Application number	Application date
US4481829 A	19841113	US19830463028	19830201

Priority:

US19830463028 19830201

Probable Assignee:

SHORTRIDGE ERNEST R

Assignee(s): (std):

SHORTRIDGE ERNEST R

Inventor(s): (std):

SHORTRIDGE ERNEST R

6) Family number: 13224403 (US5667189A)

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Title: SELF-SUPPORTING FLOW HOOD

Abstract: An adjustable, spring-loaded support mast which is affixed to standard flow hoods in order to maintain the hoods in position over ventilation registers and diffusers while air flow measurements and adjustments are made. The mast is adjustable in length to accommodate different ceiling heights and is spring loaded to facilitate the positioning and removal of the flow hood over the diffuser as well as to hold it firmly in place. This allows air flow adjustments to be made much more quickly and efficiently, saving time, expense and manpower.

Classifications:

International (IPC 8-9): F16M13/00 F24F11/04 (Advanced/Invention);
F16M13/00 F24F11/04 (Core/Invention)

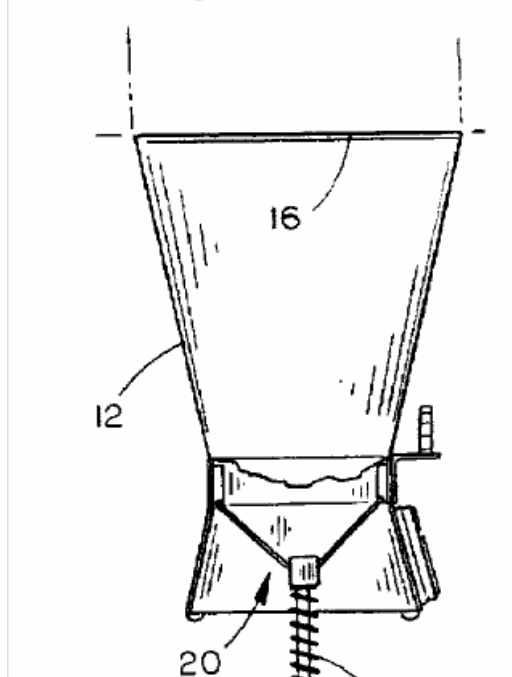
International (IPC 1-7): F16M13/00

CPC: F16M2200/08 F16M13/022 F24F11/74

European: F16M13/00 F24F11/04

US: 248/125.8 248/200.1 248/601 73/201 73/273

PatBase - US5667189_A

**Family:**

Publication number	Publication date	Application number	Application date
US5667189 A	19970916	US19950421711	19950413

Priority:

US19950421711 19950413

Probable Assignee:

KESTER MICHAEL H

Assignee(s): (std):

KESTER MICHAEL H

Inventor(s): (std):

KESTER MICHAEL H

7) Family number: 11044524 (US5786525A)

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Title: METHOD AND APPARATUS FOR BALANCING AN AIR DISTRIBUTION SYSTEM

Abstract: A flow measurement device and a VAV device are adapted to be directly coupled. The flow measurement device is adapted to automatically make and record flow measurements and to communicate the measurements to a VAV controller. The VAV controller is adapted to receive the flow measurements and self calibrate in response thereto. The VAV device is further adapted to report results of the calibration process to a system central and/or supervisory controller.

Classifications:

International (IPC 8-9): F24F11/00 F24F3/044 (Advanced/Invention);
F24F11/00 F24F3/044 (Core/Invention)

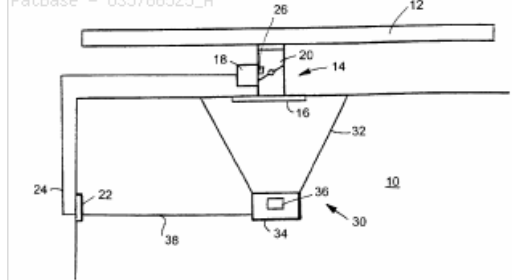
International (IPC 1-7): F24F7/00

CPC: F24F3/044 F24F11/30 F24F2110/00

European: F24F11/00R3 F24F3/044 Y02B30/28 Y02B30/76F

US: 73/1.34 73/3

PatBase - US5786525_A

**Family:**

Publication number	Publication date	Application number	Application date
US5786525 A	19980728	US19960629607	19960409

Priority:

US19960629607 19960409

Probable Assignee: JOHNSON CONTROLS TECHNOLOGY CO

Assignee(s): (std): JOHNSON SERVICE CO

Assignee(s): JOHNSON SERVICE COMPANY ; JOHNSON CONTROLS TECHNOLOGY CO

Inventor(s): (std): FREUND MARK G ; SCHRAM RONALD

8) Family number: 32587906 (US2004035411A)

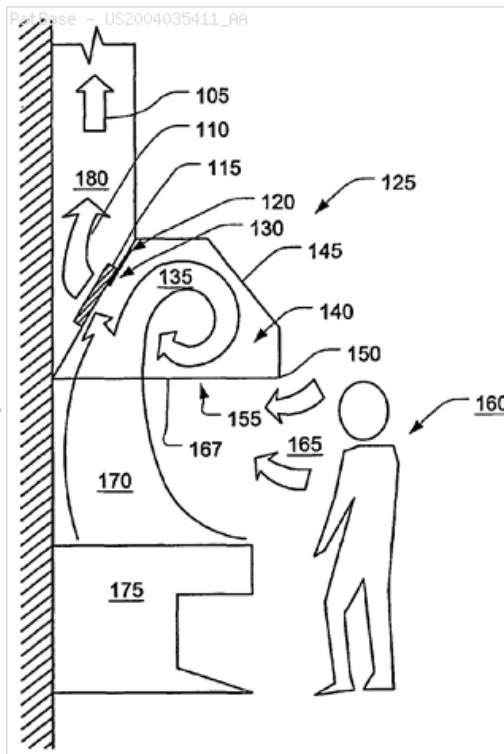
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Title: DEVICE AND METHOD FOR CONTROLLING/BALANCING FLOW FLUID FLOW-VOLUME RATE IN FLOW CHANNELS

Abstract: A system and method for controlling flow in filtering systems and for balancing the flow through fluid systems employs flow control devices that minimize suspended matter precipitation. Several embodiments are included. In a first embodiment, a smooth-walled flow control device (410) with no abrupt transitions is provided in a flow conduit section. In a second embodiment, a filter (305) acts as a flow control device. A variation of the latter locates a flow control device (300) immediately adjacent to the filter (305) and upstream of it. In other embodiments, a control system (950) detects the real time status of the load to provide on the fly critical balancing.

Classifications:

International (ipc 8-9): B01D45/00 B01D46/00 B08B15/00 B08B15/02 B08B17/02 F15D1/00 F15D1/02 F24C15/20 F24F11/00 F24F11/04 F24F13/00 F24F7/00 F24F7/08 G02B27/22 G05D23/32 (Advanced/Invention); A47J36/38 B01L1/00 (Advanced/Non-invention); B08B15/00 B08B17/00 F24C15/20 F24F11/04 (Core/Invention)
International (ipc 1-7): B01D45/00 B01D45/08 B01D46/00 B08B15/02 F16L9/14 F24C15/20 F24F5/00 F24F7/00 G05D23/32
CPC: F24F2007/001 F24C15/2021 B08B15/023 F15D1/02 F24C15/20 F24C15/2035 F24C15/2042 Y10T137/0324 Y10T137/0391 F24F11/30 F24F11/61 F24F11/62 F24F2110/30 B08B15/00 B08B15/02 F24F7/08 F24F11/0001 F24F2110/00 F24C15/2028
European: B08B15/00 B08B15/02 F15D1/02 F24C15/20 F24C15/20B F24C15/20C F24C15/20D F24C15/20F F24F11/00C F24F11/00R F24F11/00R3 F24F11/00R5 F24F7/08 R24F11/00R3E R24F11/00R5K R24F7/00A
US: 1/1 126/299 126/299.00D 126/299.00DP 126/299.00DS 126/299.00R 126/299.00RP 126/299D 126/299R 126/312 137/13 137/13P 137/2 165/237 236/49.3 236/49.300P 236/49.4 236/49.400P 359/463 454/229 454/239 454/343 454/343S 454/449 454/49 454/56 454/57 454/57P 454/58 454/61 454/61P 454/65 454/65S 454/67 454/67S 62/157 62/157S



Family:

Publication number	Publication date	Application number	Application date
AT473062 E	20100715	AT20050775069T	20050725
AU2001281223 AA	20020225	AU20010281223	20010810
AU2001281224 AA	20020225	AU20010281224	20010810
AU200181223 A1	20020225	AU20010081223	20010810
AU200181223 A5	20020225	AU20010081223	20010810
AU200181224 A1	20020225	AU20010081224	20010810
AU200181224 A5	20020225	AU20010081224	20010810
AU2003262678 AA	20050310	AU20030262678	20030813
CA2536332 AA	20060220	CA20032536332	20030813
CA2573955 AA	20070115	CA20052573955	20050725
CA2573955 C	20131217	CA20052573955	20050725
CA2828718 AA	20060202	CA20052828718	20050725
CA2828718 C	20160503	CA20052828718	20050725
DE602005022198 D1	20100819	DE200560022198T	20050725
EP1340024 A1	20030903	EP20010959697	20010810
EP1340024 A4	20050706	EP20010959697	20010810
EP1778418 A2	20070502	EP20050775069	20050725
EP1778418 A4	20090902	EP20050775069	20050725
EP1778418 B1	20100707	EP20050775069	20050725
EP1778418 B2	20131106	EP20050775069	20050725
US2004035411 AA	20040226	US20030344505	20030611
US2005279844 AA	20051222	US20050210550	20050823
US2005279845 AA	20051222	US20050210551	20050823
US2006032492 AA	20060216	US20050907300	20050328
US2007015449 AA	20070118	US20060307439	20060207
US2007068509 AA	20070329	US20060555410	20061101
US2009032011 AA	20090205	US20050572343	20050725
US2010294259 AA	20101125	US20100848140	20100731
US2011005507 A9	20110113	US20050907300	20050328

US2011021128 AA	20110127	US20100898105	20101005
US2011174384 AA	20110721	US20110073706	20110328
US2013149949 AA	20130613	US20130763167	20130208
US2013213483 AA	20130822	US20130845635	20130318
US2015241074 AA	20150827	US20150656491	20150312
US2016054006 AA	20160225	US20150928628	20151030
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US6899095 BB	20050531	US20010344505	20010810
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US7364094 BB	20080429	US20050210550	20050823
US7601054 BB	20091013	US20060555410	20061101
US8038515 BB	20111018	US20050572343	20050725
US8444462 BB	20130521	US20100848140	20100731
US9011215 BB	20150421	US20130763167	20130208
US9188354 BB	20151117	US20150656491	20150312
US9335057 BB	20160510	US20130845635	20130318
US9909766 BB	20180306	US20160149305	20160509
USRE42735 E	20110927	US20090551516	20090831
USRE44146 E	20130416	US20080316905	20081212
WO0214728 A1	20020221	WO2001US25062	20010810
WO0214746 A1	20020221	WO2001US25063	20010810
WO05019736 A1	20050303	WO2003US25515	20030813
WO06012628 A2	20060202	WO2005US26378	20050725
WO06012628 A3	20070301	WO2005US26378	20050725

Priority:

US20000224123P	20000810	US20000226953P	20000822	US20010263557P	20010123
US20010344505	20010810	WO2001US25062	20010810	WO2001US25063	20010810
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WO2003US25515	20030813	US20040590889P	20040723	WO2005US26378	20040725
US20050907300	20050328	CA20052573955	20050725	CA20052828718	20050725
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US20050210551	20050823	US20060307439	20060207	US20060555410	20061101
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US20130763167	20130208	US20130845635	20130318	CA20132573955	20131008
US20150656491	20150312	US20150928628	20151030	US20160149305	20160509

Probable Assignee: OY HALTON GROUP LTD

Assignee(s): (std): HALTON CO ; HALTON CO INC ; MEREDITH PHILIP ; LIVCHAK ANDREY ; SCHROCK DEREK ; HALTON COMPANY ; HALTON COMPANY INC ; OY HALTON GROUP LTD ; HALTON GROUP LTD OY ; BAGWELL RICK ; BEARDSLEE DARRIN ; BEARDSLEE DARRIN W ; SCHROCK DEREK W ; YO HALTON GROUP LTD

Assignee(s): BEARDSLEE DARRIN W ; BAGWELL RICK A ; OY HALTON GROUP LIMITED ; HALTON OY

Inventor(s): (std): BAGWELL RICK ; BEARDSLEE DARRIN ; BEARDSLEE DARRIN W ; BAGWELL RICK A ; BEARDSLEE DARRIN W ; MEREDITH PHILIP ; LIVCHAK ANDREY ; SCHROCK DEREK ; SCHROCK DEREK W

Inventor(s): ANDREY LIVCHAK ; DEREK SCHROCK ; PHILIP MEREDITH

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; BORDEN LADNER GERVAIS LLP; VIERING JENTSCHURA AND PARTNER; PROSKAUER ROSE LLP, PATENT DEPARTMENT; PROSKAUER ROSE LLP PATENT DEPARTMENT; PROSKAUER ROSE LLP; MILES AND STOCKBRIDGE PC; CATAN MARK A; MARK A; MILES AND STOCKBRIDGE P C; MICHAEL A; MARK; POTOMAC LAW GROUP PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

9) Family number: 23623954 (US6439061B)

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Title: Airflow measuring assembly for air handling systems

Abstract: An airflow measuring assembly and method for an air handling system, such as an HVAC system. The assembly is constructed and arranged to direct a measurable air stream to quantify airflow through an air handling system. The assembly includes a plate structure with at least one aperture and airflow sensors. The assembly is adapted for placement in a slot of an air handler and may simulate the flow resistance of HVAC filters. The airflow sensors may be positioned with respect to the plate structure to provide averaged total and static pressure signals. A manometer may be connected to the assembly to provide pressure differential readings and which may be converted via mathematic formulas to provide the volumetric airflow rate through the air handling system.

Classifications:

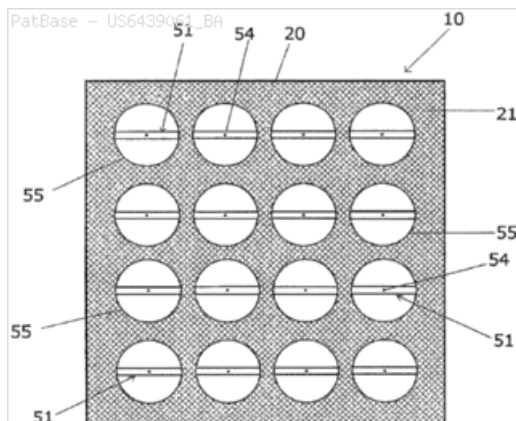
International (IPC 8-9): G01F1/46 (Advanced/Invention); G01F1/34 (Core/Invention)

International (IPC 1-7): G01F1/46

CPC: G01F1/46

European: G01F1/46

US: 73/861.65



Family:

Publication number	Publication date	Application number	Application date
US6439061 BA	20020827	US20000539085	20000330

Priority:

US19990127117P 19990331 US20000539085 20000330

Probable Assignee: ENERGY CONSERVATORY INC

Assignee(s): (std): ENERGY CONSERVATORY

Assignee(s): ENERGY CONSERVATORY INC ; ENERGY CONSERVATORY SUITE ; ENERGY UNITED STATES DEPARTMENT OF ; NELSON GARY D ; THE ENERGY CONSERVATORY ; TEC ACQUISITION INC ; TEC FOUNDING CORP

Inventor(s): (std): ROTHMAN RONALD C ; PALMITER LARRY ; NELSON GARY D

10) Family number: 41613350 (US7344089B)

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Title: WIRELESS AIR-VOLUME DAMPER CONTROL SYSTEM

Abstract: A wireless air-volume damper control system for regulating air balance in a ducted network, the damper control system having one damper or more damper units installable in the ducted network at locations where air flow in the terminal can be adjusted, the damper units each having a damper blade with a motor to pivot the blade, a power source for powering the motor and pivoting the blade, a receiver and electronic circuitry that operates the motor in response to signals received by the receiver with a portable remote controller having inputs controls and a transmitter that transmits signals to the receiver for operation of the damper unit and a flow volume measuring device for measuring the volume of air flowing in the terminal, the airflow being adjusted by signals from the transmitter of the remote controller in response to measurements from the flow volume measuring device.

Classifications:

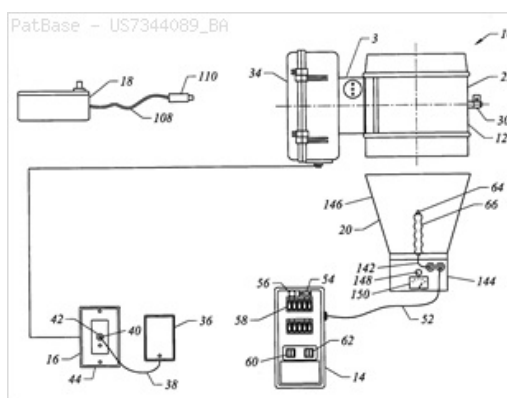
International (IPC 8-9): F24F7/00 G05D23/00 (Advanced/Invention);

F24F7/00 G05D23/00 (Core/Invention)

CPC: F24F11/74 F24F11/30 F24F11/52 F24F11/56

European: F24F11/00R9 F24F11/04 R24F11/00R5F R24F11/00R9E

US: 165/209 165/211 236/49.3 236/51

**Family:**

Publication number	Publication date	Application number	Application date
US7344089 BA	20080318	US20030395774	20030324

Priority:

US20030395774 20030324

Probable Assignee: SUTTERFIELD BILL R

Assignee(s): (std): SUTTERFIELD BILL R

Assignee(s): INTEGRATED TAB SOLUTIONS INC

Inventor(s): (std): SUTTERFIELD BILL R

Agent(s): PETERSON RICHARD ESTY; RICHARD ESTY

11) Family number: 42176876 (WO08115138A1)

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Title: AIR TERMINAL DEVICE WITH A FLOW INDICATOR

Abstract: The present invention relates to a supply or exhaust air terminal device (300) comprising a flow indicator (320) adapted to indicate when the air flow (310) in relation to a predetermined threshold level is below a predetermined threshold level. The flow indicator (320) comprises a flow sensing means (321) adapted to generate a signal related to the air flow (310) and a visibly arranged signalling means (322). The flow indicator may further comprise an electronic circuit (323) adapted to compare the signal from the flow sensing means (321) with at least one predetermined threshold value corresponding to the predetermined threshold level. Thanks to the present invention it is possible to provide a supply or exhaust air terminal device that simplifies inspection and adjustment while improving the reliability that correct air flow is obtained.

Classifications:

International (IPC 8-9): F24F11/04 F24F13/06 (Advanced/Invention);

F24F11/04 F24F13/06 (Core/Invention)

CPC: F24F11/62 F24F11/77 F24F2110/30 F24F13/06 F24F11/30

F24F11/74

European: F24F11/00R5 F24F11/00R7B F24F11/04 F24F13/06

R24F11/00R3E R24F11/04 Y02B30/74H

1/4

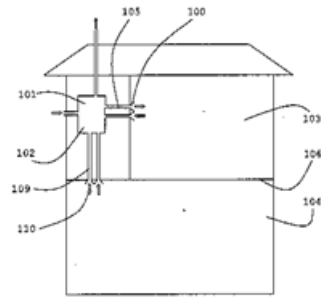


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
SE200700699 A	20080920	SE20070000699	20070319
SE200700699 L	20080920	SE20070000699	20070319
SE533651 C2	20101123	SE20070000699	20070319
WO08115138 A1	20080925	WO2008SE50296	20080317

Priority:

SE20070000699 20070319

Probable Assignee: NUTSOS MIKAEL**Assignee(s):** (std): NUTSOS MIKAEL**Assignee(s):** MIKAEL NUTSOS**Inventor(s):** (std): NUTSOS MIKAEL**Inventor(s):** MIKAEL NUTSOS**Agent(s):** BRANN AB

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 43782102 (US2009241688A)

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Title: HANDS-FREE CAPTURE HOOD SUPPORT DEVICE AND METHOD

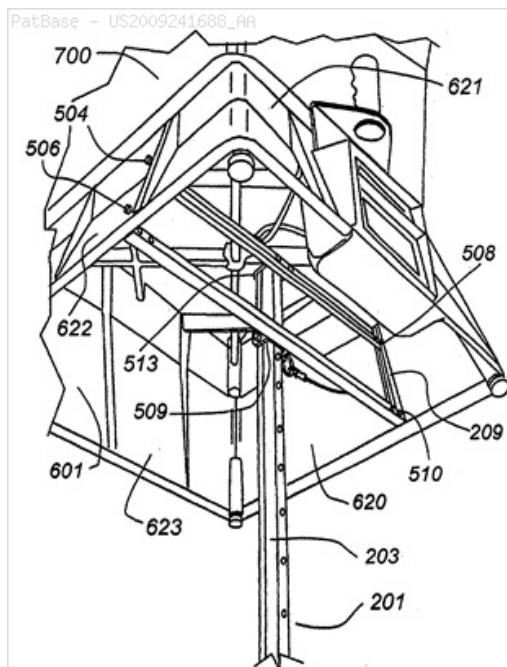
Abstract: A hands-free support device and method for supporting an airflow hood relative to an airflow register is disclosed. The apparatus comprises a support device operably attached to the airflow hood and configured to support the airflow hood relative to a first surface proximate the register. The support device is configured to engage a second surface spaced away from the first surface.

Classifications:**International (IPC 8-9):** A47F5/00 F16M11/00

G01F1/46 (Advanced/Invention);

F16M11/00 G01F1/34 (Core/Invention)

CPC: G01F15/063 G01F15/18 G01F15/185**European:** G01F15/06B2 G01F15/18 G01F15/18B**US:** 248/351 248/354.1 248/354.5 248/688 248/688S 73/861.65 73/861.650P



Family:

Publication number	Publication date	Application number	Application date
US2009241688 AA	20091001	US20090414513	20090330
US8641006 BB	20140204	US20090414513	20090330

Priority:

US20080040443P 20080328 US20090414513 20090330

Probable Assignee: REICHEL DAVID C

Assignee(s): (std): REICHEL DAVID C

Inventor(s): (std): REICHEL DAVID C

Agent(s): DORSEY AND WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT; DORSEY AND WHITNEY LLP

13) Family number: 44933018 (US7706673B)

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Title: PORTABLE REMOTE CAMERA CONTROL DEVICE

Abstract: A portable camera actuation system is disclosed that may be used for taking self-portraits. The system includes an extendable handle assembly that may be held by a user at a first end thereof, and a base unit coupled to a second end of said extendable handle assembly. The base unit is for receiving a camera mounted thereon. The system also includes a remote shutter transmitter unit for providing a wireless shutter signal, and a remote wireless signal receiver unit. The remote shutter transmitter unit is provided at a location that is remote from the camera. The wireless shutter signal receiver unit is coupled to the base unit and is for providing actuation of an external shutter button on the camera responsive to the wireless shutter signal.

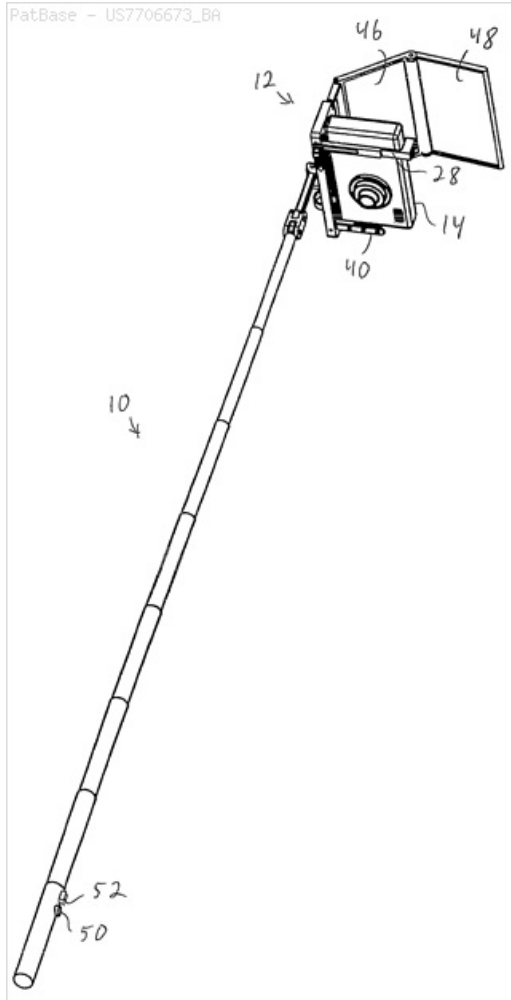
Classifications:

International (IPC 8-9): G03B17/00 H04N5/232 (Advanced/Invention);
G03B17/00 H04N5/232 (Core/Invention)

CPC: G03B17/00 F16M11/2021 F16M11/28 F16M13/04 H04N5/232

European: F16M11/06 F16M11/08 F16M11/20A2 F16M11/26
F16M11/28 F16M13/04 G03B17/00 H04N5/232

US: 348/211.2 348/376 396/425 396/428 396/58

**Family:**

Publication number	Publication date	Application number	Application date
US7706673 BA	20100427	US20070697406	20070406

Priority:

US20070697406 20070406

Probable Assignee: CHEVERE SANTOS MARIA**Assignee(s):** (std): CHEVERE SANTOS MARIA ; STAUDINGER ROBERT J ; ZHOU RUIJUN**Inventor(s):** (std): ZHOU RUIJUN ; STAUDINGER ROBERT J ; CHEVERE SANTOS MARIA**Agent(s):** GAUTHIER AND CONNORS LLP**14) Family number: 50665885** (US2012046792A)

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Title: WIRELESS SENSORS SYSTEM AND METHOD OF USING SAME

Abstract: An apparatus, system, and methods for measuring environmental parameters are disclosed. The apparatus, system, and methods can be used for a variety of applications, including HVAC air balancing and building commissioning. The system includes a variety of wireless sensing modules and wearable modules for control, display, and storage. Parameters measured include air and water temperature, pressure, velocity, and flow. Also included are sensors for light intensity, CO concentrations, and CO2 concentrations.

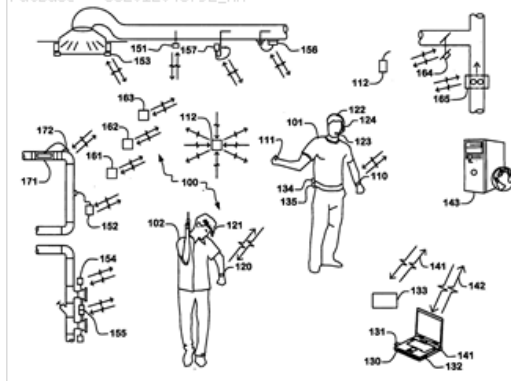
Classifications:

International (IPC 8-9): F24F11/00 G01F1/34 G01F1/46 G01N7/00 G05B19/042 G05B19/048 G05D23/19 G06F15/00 G06F19/00 (Advanced/Invention)

CPC: F24F11/0001 G01F1/46 G01F1/34 G05B19/042 G05B2219/23136 G05B2219/24084 G05B2219/2614 Y02B30/78 G05B19/048 F24F2011/0002 F24F11/30 F24F11/52 F24F11/56 F24F11/62 F24F2110/10 F24F2110/12 F24F2110/20 F24F2110/30 F24F2110/40 F24F2110/70 F24F2110/72

European: F24F11/00R9 R24F11/00R3A R24F11/00R3B R24F11/00R3C11 R24F11/00R3C9 R24F11/00R3E R24F11/00R3F1 R24F11/00R5F

US: 1/1 700/276 700/276P 702/188 702/188S 702/45 702/45S 73/23.2 73/23.200S 73/861 73/861.42 73/861.420S 73/861.65 73/861.650P 73/861.66 73/861S

**Family:**

Publication number	Publication date	Application number	Application date
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US2012046792 AA	20120223	US20110136814	20110811
US2012085179 AA	20120412	US20110317498	20111019
US2013190931 AA	20130725	US20130790265	20130308
US2014208869 AA	20140731	US20130077118	20131111
US2017198930 AA	20170713	US20170472172	20170328
US8578790 BB	20131112	US20110317498	20111019
US9074917 BB	20150707	US20130077118	20131111
US9605857 BB	20170328	US20110136814	20110811

Priority:

US20100401336P 20100811 US20110463549P 20110219 US20110136814 20110811
US20110317498 20111019 US20130790265 20130308 US20130077118 20131111
US20170472172 20170328

Probable Assignee: EVERGREEN TELEMETRY LLC

Assignee(s): (std): EVERGREEN TELEMETRY LLC ; SECOR RUSSELL P

Inventor(s): (std): SECOR RUSSELL P

Agent(s): DONALD J; ADAM R STEPHENSON LTD

15) Family number: 52171899 (US2012267502A)

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Title: APPARATUS AND METHOD FOR ELEVATING AND SUPPORTING AN AIR FLOW MEASURING DEVICE

Abstract: Apparatus and method for elevating and supporting an air flow measuring device to enable hands-free air flow measurement.

Classifications:

International (IPC 8-9): F16M11/00 F16M11/20 F16M11/24

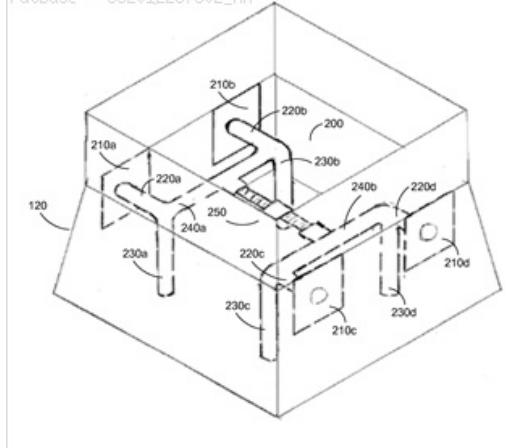
F16M11/42 F16M13/00 G01F15/18 (Advanced/Invention)

CPC: F16M11/24 F16M11/42 G01F15/18

European: F16M11/24 F16M11/42

US: 1/1 248/346.06

PatBase - US2012267502_AA



Family:

Publication number	Publication date	Application number	Application date
US2012267502 AA	20121025	US20110090354	20110420
US9052059 BB	20150609	US20110090354	20110420

Priority:

US20110090354 20110420

Probable Assignee: ILEOGBEN PIUS

Assignee(s): (std): ILEOGBEN PIUS

Inventor(s): (std): ILEOGBEN PIUS

Agent(s): BAXAM LAW GROUP LLC; DEANNA L

16) Family number: 53007034 (EP2557368A1)

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Title: PROCEDURE FOR REGULATING AN AIR FLOW IN AN AIR CONDITIONING SYTEM AND AIR CONDITIONING SYSTEM THEREFOR

Abstract: A procedure for regulating an air flow in an air conditioning plant, with an air conditioning unit (2) suitable for generating a flow of air, a plurality of diffuser elements (4) for diffusing the conditioned air into the ambient, a transport channel (13) for transferring the air to be diffused, a flow interrupting element (20) mobile between a first operating condition in which it enables passage of fluid towards the diffuser elements (4) and a second operating condition in which it substantially intercepts the air, the flow interrupting element (20) being interposed between a first portion of the plant directly in fluid connection with the at least an air conditioning unit (2) and a second portion of the plant and intercepting the air flow coming from the at least a treatment unit (2) and directed towards the second portion of the plant, a pressure sensor (22) for detecting an operating pressure internally of the plant, the procedure comprising the following steps of activating the conditioning unit (2) such as to generate an air flow, detecting, with the pressure sensor (22), the pressure generated internally of the plant, moving the flow interrupting element (20) into an operating position comprised between the first and the second operating condition as a function of the pressure detection performed by the sensor (22) for regulating the air flow internally of the plant.

Classifications:

International (IPC 8-9): F24F11/00 F24F11/04 F24F11/30 F24F11/74

F24F11/40 F24F13/02 F24F13/06 F24F13/068 F24F14/40

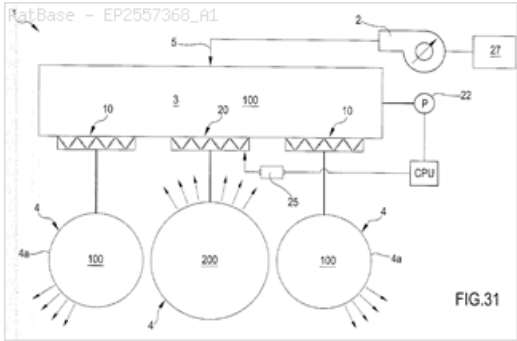
F24F3/044 (Advanced/Invention);

F24F11/40 F24F14/40 (Advanced/Non-invention);

F24F11/00 F24F13/00 F24F3/00 (Core/Invention)

CPC: F24F3/044 F24F13/0236 F24F13/068 F24F2003/0446

F24F2013/0608 F24F11/30 F24F11/745 F24F2110/40 F24F2140/40



Family:

Publication number	Publication date	Application number	Application date
DE602012037730 D1	20171102	DE201260037730T	20120809
EP2557368 A1	20130213	EP20120179782	20120809
EP2557368 B1	20170927	EP20120179782	20120809
EP3293462 A1	20180314	EP20170193279	20120809
HR20171943 T1	20180223	HR20170001943	20171214
ITMI20111538 A1	20130213	IT2011MI01538	20110812
SI2557368 T1	20180430	SI20120031165T	20120809

Priority:

IT2011MI01538 20110812 EP20120179782 20120809

Probable Assignee: ZAMBOLIN MARCO

Assignee(s): (std): ZAMBOLIN MARCO

Inventor(s): (std): ZAMBOLIN MARCO

Agent(s): Ponzellini Gianmarco; PONZELLINI GIANMARCO

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

17) Family number: 57881357 (US2015198468A)

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Title: VOLUMETRIC-FLOW MEASURING APPARATUS

Abstract: A volumetric-flow measuring apparatus (1) is provided using a measuring funnel (4) and a flow straightener (6) from a foldable material, which is disposed in the measuring funnel (4), configured such that the measuring funnel (4) and the flow straightener (6) are convertible between a folded-up transport position and an unfolded use position.

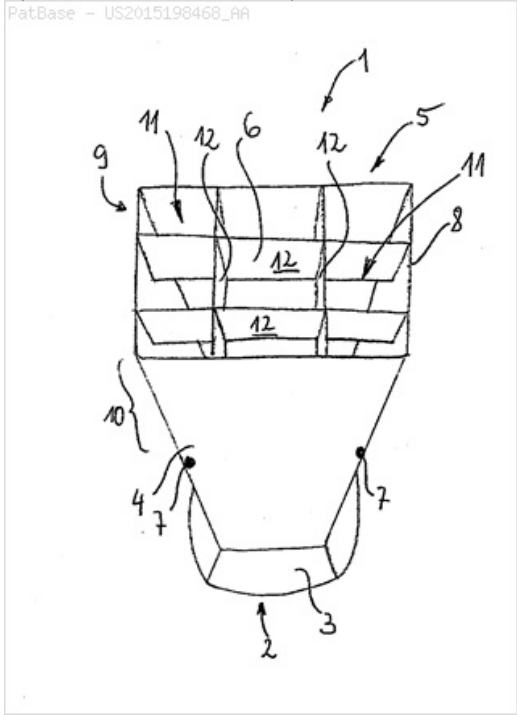
Classifications:

International (IPC 8-9): F24F11/04 F24F13/06 F24F13/08 G01F1/00

G01F1/05 G01F1/36 G01F1/40 (Advanced/Invention)

CPC: G01F1/05 F24F13/06 F24F13/08 F24F2013/088

US: 1/1 73/861



Family:

Publication number	Publication date	Application number	Application date
CN104776886 A	20150715	CN201510010286	20150109
DE102014000241 A1	20141127	DE201410000241	20140110
DE102014000241 B4	20150416	DE201410000241	20140110
FR3016437 A1	20150717	FR20140062910	20141219
FR3016437 B1	20180511	FR20140062910	20141219
JP2015132604 A2	20150723	JP20150003051	20150109
US2015198468 AA	20150716	US20150593247	20150109

Priority:

DE201410000241 20140110 JP20150003051 20150109

Probable Assignee: TESTO AG

Assignee(s): (std): TESTO AG

Inventor(s): (std): BRUGGER SIMON ; MARTIN ROMBACH ; ROMBACH MARTIN ; SIMON BRUGGER

Agent(s): REGIMBEAU; VOLPE AND KOENIG PC

18) Family number: 63365304 (US2016252114A)

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Title: AIR FLOW HOOD

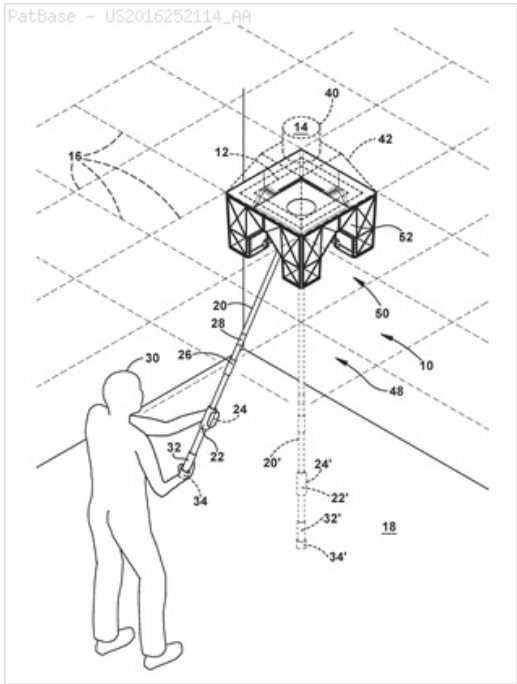
Abstract: An apparatus for measuring airflow through a diffuser of an HVAC system includes a hood for being positioned adjacent the diffuser so that airflow discharged from the diffuser is directed into the hood. The hood is configured to divide and direct the airflow through a plurality of discharge channels. Sensor probes measure the airflow through each discharge channel.

Classifications:

International (IPC 8-9): F15D1/02 F24F11/00 F24F11/02 F24F11/74 F24F13/06 G01F1/00 G01F1/684 (Advanced/Invention); F24F110/30 (Advanced/Non-invention)

CPC: F15D1/02 G01F1/684 F24F13/06 F24F11/74 F24F2110/30 F24F2221/14

US: 138/39



Family:

Publication number	Publication date	Application number	Application date
CN108351117 A	20180731	CN201680012610	20160223
CO20170008959 A2	20180131	CO20170008959	20170831
EP3274635 A1	20180131	EP20160707609	20160223
IN201747033257 A	20171006	IN201747033257	20170920
JP2018511790 T2	20180426	JP20170545216T	20160223
US2016252114 AA	20160901	US20160050813	20160223
US2018274570 AA	20180927	US20180992621	20180530
US10001151 BB	20180619	US20160050813	20160223
WO16137952 A1	20160901	WO2016US19069	20160223

Priority:

US20150121222P 20150226 US20160050813 20160223 WO2016US19069 20160223
US20180992621 20180530

Probable Assignee: DWYER INSTRUMENTS INC

Assignee(s): (std): DWYER INSTR

Assignee(s): DWYER INSTRUMENTS INC

Inventor(s): (std): GUADA ALEJANDRO IGNACIO BAEZ ; MOSS ROBERT AUSTIN

Inventor(s): ROBERT AUSTIN MOSS ; ALEJANDRO IGNACIO BAEZ GUADA

Agent(s): JOHAN SEBASTIAN GOMEZ VILLA; IQBAL MD MASH HUD; ISSHIKI AND CO; TAROLLI SUNDHEIM COVELL AND TUMMINO LLP; HAYDEN CRAIG W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW