

PatBase - Search results 15 November 2018

Search query (18): fn=(47422364 or 5415988 or 5415988 or 13078814 or 4670386 or 4317179 or 13078814 or 29591016 or 29591016 or 32384642 or 32475571 or 42497025 or 42497035 or 41750332 or 44051570 or 43227126 or 43083808 or 49953090 or 53291269 or 4463709 or 5194281 or 3324425 or 3481955 or 17916108 or 11096787 or 11096787 or 9475224 or 11975786 or 20352778 or 11636102 or 11975786 or 12124785 or 28634358 or 41750332 or 42497035 or 53291269 or 30830689 or 29937135 or 22475619 or 22242068 or 22995845 or 817691 or 933446 or 956299 or 972635 or 982711 or 393458 or 171929 or 7630546 or 26963574)

Results: 42**Search history**

Search pa=(LUMES SAS) (Results 1)

1:

Search cabin* and biosafety (Results 1179)

2:

Search radiopharmaceutical (Results 5447)

3:

Search ic=(A61L) (Results 241568)

4:

Search 2 and 4 (Results 151)

5:

Search armor* (Results 76270)

6:

Search 5 and 6 (Results 2)

7:

Search laminar and flow (Results 98285)

8:

Search cabin* (Results 853210)

9:

Search 8 and 9 (Results 4709)

10:

Search 4 and 10 (Results 339)

11:

Search duct (Results 709949)

12:

Search 11 and 12 (Results 53)

13:

Search fn=(54769228 or 33616427 or 15222268 or 24677672) (Results 4)

14:

Search fn=(62762870 or 65014436 or 63579856 or 44532268 or 50100760 or 50100760 or 55760878 or 48855339 or 50100760 or 55760878 or 55760878 or 68579408 or 3753319 or 11906352 or 12236852 or 15621364 or 20741238) (Results 13)

Search 11 and armor* (Results 5)

16:

Search pn=(US3874754) (Results 1)

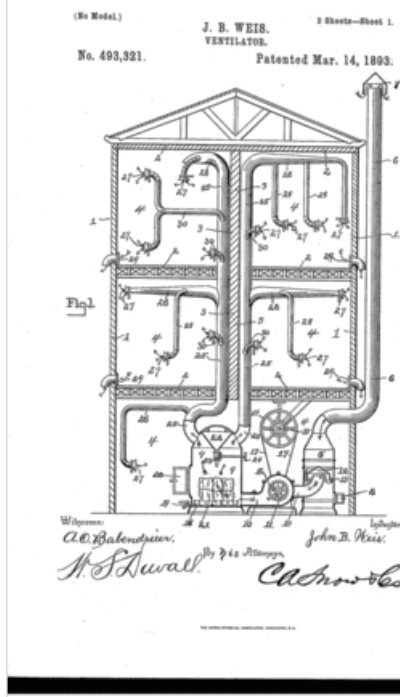
17:

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1) Family number: 26963574 (US493321 A)

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Classifications:**International (IPC 1-7):** F24F7/00**CPC:** F24F3/1603**US:** 126/319 454/251 454/361 62/317 62/408 62/411 62/412 62/419 62/420

**Family:**

Publication number	Publication date	Application number	Application date
US493321 A	18930314		00000000

2) Family number: 29937135 (US3186327A)

© PatBase

Title: INDUCTION UNIT FOR AIR CONDITIONING SYSTEMS

Abstract: 972,905. Air conditioning. WORTHINGTON CORPORATION. May 14, 1963 [Feb. 28, 1963], No. 19024/63. Heading F4V. [Also in Division F1] An induction unit for air conditioning systems comprises a plenum 11 having a primary air inlet 12 and communicating with induction nozzles 18 through a throttling and sound attenuating assembly 17 including a plurality of sound attenuating passages. The assembly 17 (Fig. 5) comprises a casing 19 whose bottom wall 23 has groups of perforations 32 in vertical alignment with the induction nozzles 18. A hit and miss damper plate 27 having similarly arranged perforations 33 is slidable by a screw 31 in guides 28 and 29 to control the flow of air to the nozzles 18. The sound attenuating assembly comprises a first layer 34 of polyurethane foam having openings 35 in alignment with and slightly larger than the groups of apertures 32. A diffuser 37 formed of wood or metal is disposed on top of the layer 34 and has passages 36 arranged in circles and depending polyurethane cushions 38. The passages 36 may consist of tubular elements positioned in the diffuser or may comprise arcuate passages giving a substantially annular opening. The passages 36 act as an acoustic filter and transform lowfrequency noises into high-frequency noises which are more easily absorbed by polyurethane foam. A second sound-absorbing layer 39 has openings 41 having their edges disposed outwardly of the rings of passages 36. A third sound-absorbing layer rests on the second and has passages 43 of smaller diameter than the openings 41 leading to the induction nozzles 18 which are formed on a top plate 26 of the casing 19. In modifications (not shown), the passages connecting the damper and nozzles may be modified to permit introduction of primary air through the side or end walls of the casing 19, and separate tubular members may be used to communicate the plenum with the nozzles.

Classifications:

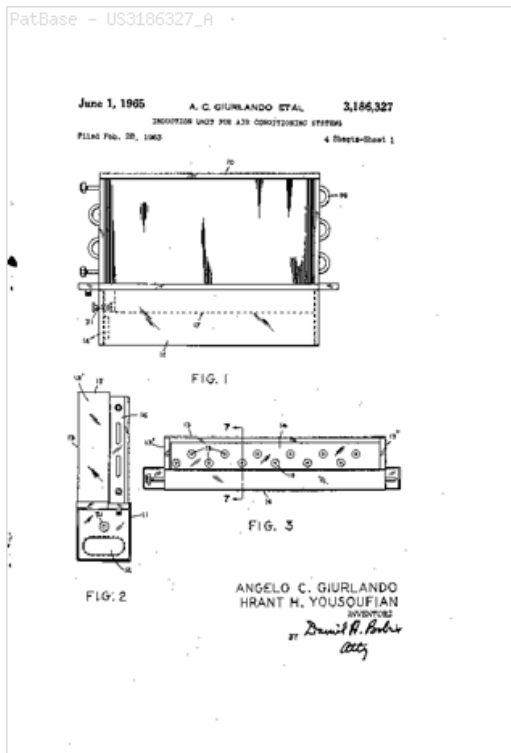
International (IPC 8-9): D03D51/34 F24F1/00 F24F1/01 F24F11/02 F24F13/06 F24F13/24 F24F13/26 F24F3/04 (Advanced/Invention)

International (IPC 1-7): F24F G06F17/50 G06F19/00 G06K9/03

CPC: F24F11/72 F24F13/24 F24F1/01 F24F13/26

European: F24F1/01 F24F11/02B F24F13/24 F24F13/26

US: 454/262 454/263

**Family:**

Publication number	Publication date	Application number	Application date
AU3072863 A1	19641119	AU19630030728	19630515
AU4052664 A1	19650805	AU19640040526	19630205
BE643010 A	19640515		19640127
CH414991 A	19660615	CH19630005879	19630510
DE1267816 B	19680509	DE19631267816	19630607
FR1356651 A	19640327	FR19630934303	19630509
GB972905 A	19641021	GB19630019024	19630514
US3186327 A	19650601	US19630261722	19630228

Priority:

US19630261722 19630228

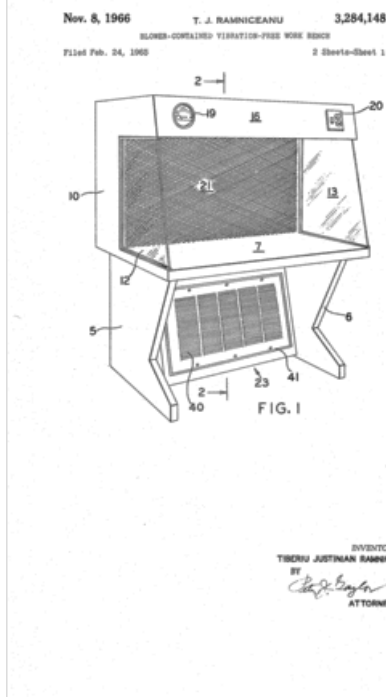
Probable Assignee: WORTHINGTON CORP**Assignee(s):** (std): WORTHINGTON CORP**Assignee(s):** ANGELO CHARLES GUIRLANDO AND HRANT HARRY YOUSOUFIAN ; TALON DG**Inventor(s):** (std): ANGELO C GIURLANDO ; GIURLANDO ANGELO C ; HRANT H YOUSOUFIAN ; YOUSOUFIAN HRANT H ; YOUSOUFLAN HRANT H**Inventor(s):** WALTER JOHN ROIDER AND RICHARD WILBUR PHILLIPS ; H YOUSOUFIAN HRANT ; C GIURLANDO ANGELO ; ANGELO CHARLES GUIRLANDO AND HRANT HARRY YOUSOUFIAN**3) Family number: 22475619 (US3284148A)**

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Title: BLOWER-CONTAINED VIBRATION-FREE WORK BENCH

Abstract: (Claim 1) I claim: A blower-contained vibration-free work bench of the type described, comprising, a work platform supported on a pair of legs and having an opening in its rear portion serving as an air entry into a plenum chamber. A separate cabinet disposed between said legs and in spaced relation under said platform, said cabinet having a base on which a blower may be mounted, and having a back, a top, sides, and a front, and an opening in the rear portion of its top, serving as an air outlet, and disposed in alignment with said platform opening when in use, a panel disposed in the upper portion of said cabinet in spaced relation below said cabinet top, thereby forming an ante-plenum chamber therewith, and having an opening in its forward portion in staggered relation to said opening in the cabinet top, blower mounted on said cabinet base and having an outlet flange, flexible conduit connected at its bottom to and over said cabinet top in outside sealing relation therewith, and circumscribing the opening in said cabinet top, and having its upper portion connected to and under said platform and circumscribing the plenum opening in outside sealing relation, and flexible conduit connected at its top to the bottom of said panel in outside sealing relation therewith and circumscribing the opening in said panel, and having its lower end connected on said blower outlet flange in outside sealing relation therewith.

Classifications:**International (IPC 8-9):** B25H1/20 F24F3/16 (Advanced/Invention); B25H1/00 F24F3/16 (Core/Invention)**International (IPC 1-7):** B25H1/10 F24F7/00**CPC:** B25H1/20 F24F3/1607**European:** B25H1/20 F24F3/16B3**US:** 312/209 454/56 55/385.1 55/385.2 D24/234

**Family:**

Publication number	Publication date	Application number	Application date
US3284148 A	19661108	US19650434925	19650224

Priority:

US19650434925 19650224

Probable Assignee: JUSTINIAN RAMNICEANU TIBERIU
Assignee(s): (std) JUSTINIAN RAMNICEANU TIBERIU
Inventor(s): (std) JUSTINIAN RAMNICEANU TIBERIU
Inventor(s): RAMNICEANU TIBERIU JUSTINIAN

4) Family number: 22242068 (US3301163A)

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Title: COFFER TYPE VENTILATING CEILING STRUCTURE

Abstract: (Claim 1) 1. For use in a ventilating system in combination with a wall or a ceiling of a space to be ventilated having an inner wall spaced interiorly of said wall or ceiling, said inner wall having a plurality of openings therein, the improvement of a coffer type ceiling module for mounting in each of said openings, each said module comprising upper and lower rectangular frames of complementary shape but of different size and legs disposed angularly therebetween at the corners thereof to secure said frames in firm assembly with one another, a top panel in said upper frame, and a panel in each side wall between said upper and lower frames, forming a ceiling component of a space, each said panel formed by a flat member comprising acoustic material for absorbing sound from the space and having air passages formed therein over a substantial extent thereof for diffusion of air directly through said panels into or out of the space, and means forming a ventilating circuit including said coffer unit and the space for directing air through said coffer type ceiling module as an air outlet to or an air return from the space.

Classifications:

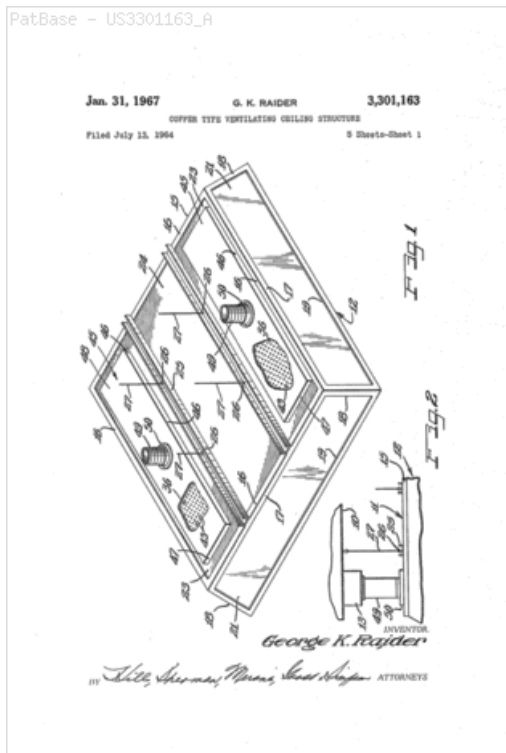
International (IPC 8-9): F24F13/068 F24F13/078 (Advanced/Invention);
F24F13/06 (Core/Invention)

International (IPC 1-7): F24F13/00

CPC: F24F13/068 F24F13/078

European: F24F13/068 F24F13/078

US: 454/248 454/295

**Family:**

Publication number	Publication date	Application number	Application date
US3301163 A	19670131	US19640382025	19640713

Priority:

US19640382025 19640713

Probable Assignee:

PYLE NATIONAL CO

Assignee(s): (std):

PYLE NATIONAL CO

Assignee(s):

THE PYLE NATIONAL COMPANY

Inventor(s): (std):

RAIDER GEORGE K

5) Family number: 22995845 (US3354495A)

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Title: PASS-THROUGH CLEANING APPARATUS

Abstract: ABSTRACT OF THE DISCLOSURE A booth or enclosure in which articles, such as machine parts or instruments are adapted to be packaged, the booth having means for directing filtered air into it and particularly upon a work bench located within the booth and upon which wrapping or packaging operations can take place. At one end of the booth and beyond an end wall thereof, is a spray washing device and a door through said end wall establishes communication between the washing apparatus and the interior of the booth so that the articles, after having been cleansed by the washing apparatus, can be passed through the door to reach the work bench. In an opposite end wall of the booth is provided an outlet opening and the wrapped or packaged articles can be passed out through this opening or else deposited into a shipping container entered through said opening.

Classifications:

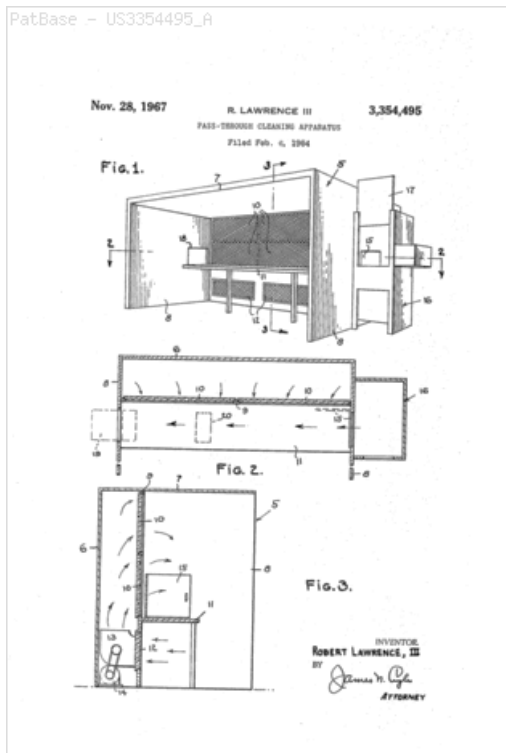
International (IPC 8-9): B08B15/02 (Advanced/Invention);
B08B15/00 (Core/Invention)

International (IPC 1-7): C23G3/00

CPC: B08B15/02

European: B08B15/02

US: 134/30 134/37 134/84 15/302 312/236 422/40 454/56 454/60
55/385.2

**Family:**

Publication number	Publication date	Application number	Application date
US3354495 A	19671128	US19640343032	19640206

Priority:

US19640343032 19640206

Probable Assignee: SP IND PARTNERSHIP LTD**Assignee(s):** (std): HEINICKE INSTR CO

Assignee(s): HEINICKE INSTRUMENTS CO ; HELLER FINANCIAL INC ; HELLER FINANCIAL INC A CORP OF DELAWARE ; PRECISION SCIENTIFIC INC ; PRECISION SCIENTIFIC INC C O VARLEN 305 EAST SHUMAN BLVD NAPERVILLE IL 60566 7089 A CORP OF DE CORP ; SP IND ; SP IND INC A K A SP IND PARTNERSHIP PREDECESSOR IN INTEREST LTD ; SP IND PARTNERSHIP LTD

Inventor(s): (std): LAWRENCE III ROBERT**Inventor(s):** III ROBERT LAWRENCE**6) Family number: 817691** (US3375773A)

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Title: Air handling light fixture**Abstract:** ABSTRACT OF THE DISCLOSURE

An air handling luminaire including a housing which, in conjunction with a refractor door assembly, defines an enclosure in which the heat generating light sources are mounted. The refractor door assembly includes an air entrance duct on one or both ends thereof which has a curved arcuate shape in cross-section and is so shaped to minimize air turbulence while minimizing the exit of light from the light sources through the air entrance duct. The air entrance duct is further provided with a semi-circular, in cross-section, vane rotatable within the duct to vary the area of the entrance and accordingly the amount of air traversing the heat generating light sources. B

Classifications:

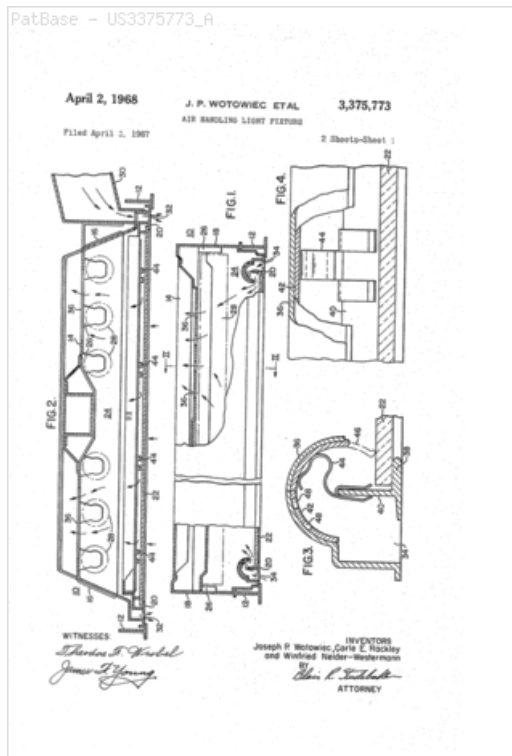
International (IPC 8-9): F24F13/078 F24F3/056 (Advanced/Invention);
F24F13/06 F24F3/044 (Core/Invention)

International (IPC 1-7): F21V33/00 F24F13/00

CPC: F24F3/056 F24F13/078

European: F24F13/078 F24F3/056

US: 165/96 362/150 362/294 454/248 454/293



Publication number	Publication date	Application number	Application date
US3375773 A	19680402	US19670627827	19670403

US19670627827 19670403

Probable Assignee: WESTINGHOUSE ELECTRIC CORP

Assignee(s): (std): WESTINGHOUSE ELECTRIC CO ; WESTINGHOUSE ELECTRIC CORP

Assignee(s): COOPER IND

Inventor(s): (std): NIEDER WESTERMANN WINFRIED ; RACKLEY CARLE E ; WOTOWIEC JOSEPH P ; WINFRIED NIEDER WESTERMANN

Title: SUPPLY AIR DEVICE FOR INJECTION OF PERFERABLY COLD VENTILATION AIR

Abstract: An air supply device adapted to be mounted in a hung ceiling for injecting cold air from a duct extending parallel to the ceiling surface above the hung ceiling. The device consists of a pressure box having an air distribution chamber in its bottom formed between a pair of perforated plates which operate to distribute the air vertically downward and eliminate any horizontal component generated in the duct. To avoid the fouling of the ceiling surface surrounding the distribution chamber by the dirty secondary room air, airflow gaps are provided surrounding the distribution chamber to inject air streams substantially parallel to the ceiling surface radiating outwardly from the distribution chamber. Airflow-regulating means are provided in each gap and in the distribution chamber to insure mixture of the air with secondary room air so as to avoid the draughts normally experienced from cold air inlet grilles.

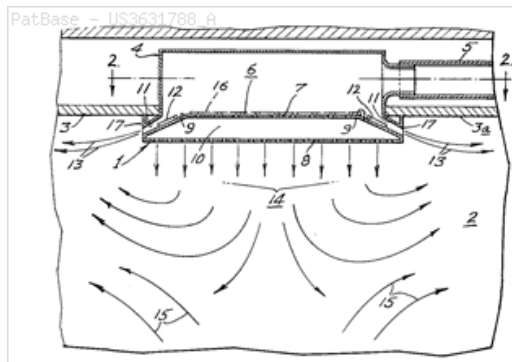
International (IPC 8-9): F24F13/068 (Advanced/Invention);
F24F13/06 (Core/Invention)

International (IPC 1-7): F24F13/00 F24F13/06

CPC: F24F13/068

European: F24F13/068

US: 454/297 454/322



Publication number	Publication date	Application number	Application date
AT300282 B	19720725	AT19700002585	19700319
AT306311 B	19730410	AT19710000827	19710201
CA937805 A1	19731204	CA19710106151	19710224
CH503237 A	19710215	CH19700003636	19700311
CH516775 A	19711215	CH19710002532	19710222
DE2013244 A1	19701001	DE19702013244	19700319
DE2013244 B2	19780831	DE19702013244	19700319
DE2106394 A1	19710909	DE19712106394	19710211

FI53250 B	19771130	FI19700000683	19700313
FI53250 C	19780310	FI19700000683	19700313
FR2039708 A5	19710115	FR19700009862	19700319
FR2083111 A6	19711210	FR19710006631	19710226
GB1241528 A	19710804	GB19700012572	19700316
GB1317864 A	19730523	GB19710020815	19710419
JP54005224 B4	19790314	JP19710009415	19710226
NL161873 B	19791015	NL19700003853	19700318
NL161873 C	19800317	NL19700003853	19700318
NL7003853 A	19700922	NL19700003853	19700318
NL7102599 A	19710830	NL19710002599	19710226
NO123305 B	19711025	NO19700000772	19700305
SE334991 B	19710510	SE19690003849	19690319
SE351287 B	19721120	SE19700002478	19700226
US3631788 A	19720104	US19700020745	19700318
US3699871 A	19721024	US19710119091	19710226

Priority:

SE19690003849 19690319 SE19700002478 19700226

Probable Assignee: SVENSKA FLAECTFABRIKEN AB

Assignee(s): (std): A H BEAUFOR ; SVENSKA FLAECTFABRIKEN AB

Assignee(s): AKTIEBOLAGET SVENSKA FLAKTFABRIKEN ; SVENSKA FLAKTFABRIKEN AB ; SVENSKA FLAKTFABRIKEN ; AKTIEBOLAGET SVENSKA FLAECTFABRIKEN ; BIRGER LARKFELDT ; AB SVENSKA FLAKTFABRIKEN ; AB SVENSKA FLAECTFABRIKEN NACKA SCHWEDEN ; AB SVENSKA FLAECTFAB ; AB SVENSKA FLAECTFABRIKEN ; A B SVENSKA FLAECTFABRIKEN NACKA ZWEDEN

Inventor(s): (std): BIRGER LARKFELDT ; LAERKFELDT B ; LARKFELDT BIRGER ; LAERKFELDT BIRGER ; LARKFELDT B

Inventor(s): LAERKFELDT BIRGER BARNARP JOENKOEPIG SCHWEDEN

8) Family number: 393458 (US3632180A)

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Title: CARRIAGE, NOTABLY FOR LABORATORY TABLE

Abstract: Movable carriage adapted to equip tables, benches and other work or handling surfaces, more particularly laboratory worktables. This carriage comprises two trains of wheels, rollers or casters, one train rolling on the table surface and being so arranged that the other train, rolling along the vertical edge of the table, remains in constant engagement with said edge, thus acting as a guide means, irrespective of the direction in which the carriage is propelled for changing its position on the table. Thus, the carriage may have a constant position in relation to the table edge.

Classifications:

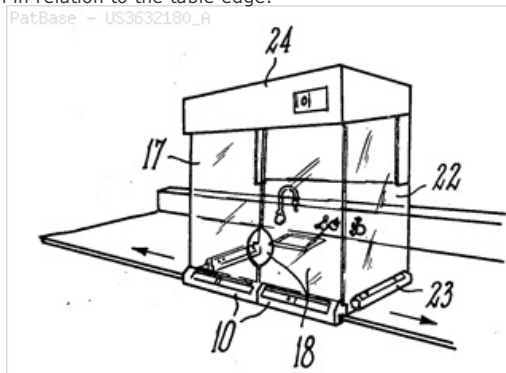
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International (IPC 1-7): A47B97/00 B01L1/00 B01L9/00 B25H1/10

CPC: B01L9/02 B25H1/20

European: B01L9/02 B25H1/20

US: 104/246 312/140.4 312/209 312/210 312/249.1 312/250



Family:

Publication number	Publication date	Application number	Application date
DE2025825 A1	19701203	DE19702025825	19700526
FR2041954 A5	19710205	FR19690017754	19690530
FR2070416 A6	19710910	FR19690041847	19691204
US3632180 A	19720104	US19700021236	19700320

Priority:

FR19690017754 19690530 FR19690041847 19691204

Probable Assignee: HAUVILLE FRANCOIS

Assignee(s): (std): HAUVILLE FRANCOIS

Assignee(s): FRANCOIS HAUVILLE

Inventor(s): (std): HAUVILLE FRANCOIS

Inventor(s): FRANCOIS HAUVILLE

9) Family number: 933446 (US3547505A)

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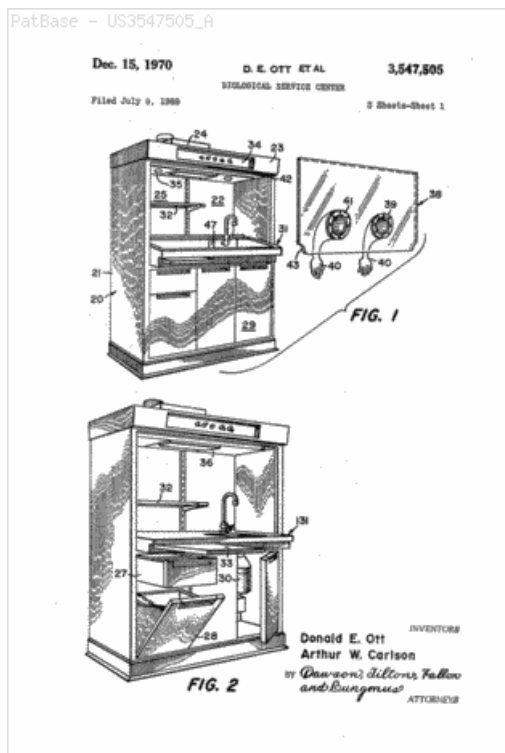
Title: BIOLOGICAL SERVICE CENTER

Abstract: (Claim 1) 1. Biological study equipment comprising a generally rectangular cabinet having a front opening in the upper portion thereof, a sink in said cabinet defining at least a portion of the bottom of said opening, exhaust port means defining at least a portion of the top of said opening, downwardly-directed germicidal lamp means adjacent said exhaust port means, and storage means below said sink.

Classifications:

International (IPC 8-9): A47B37/00 A47B77/04 B01L1/00 B08B15/02

B25J21/02 (Advanced/Invention);
A47B37/00 A47B77/04 B01L1/00 B08B15/00
B25J21/00 (Core/Invention)
International (IPC 1-7): A47B81/00 A61G11/00 B25J21/02
CPC: A47B37/00 A47B77/04 B01L1/00 B08B15/026 B25J21/02
European: A47B37/00 A47B77/04 B01L1/00 B08B15/02G
B25J21/02
US: 312/1 312/209



Family:

Publication number	Publication date	Application number	Application date
US3547505 A	19701215	US19690840268	19690709

Priority:

US19690840268 19690709

Probable Assignee:

SHELDON AND CO E H

Assignee(s): (std):

SHELDON AND CO E H

Assignee(s):

E H SHELDON AND CO

Inventor(s): (std):

CARLSON ARTHUR W ; OTT DONALD E

Inventor(s):

ARTHUR W CARLSON ; DONALD E OTT

10) Family number: 956299 (US3584927A)

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Title: BIOLOGY STUDY ENCLOSURE

Abstract: (Claim 1) 1. Biological study equipment comprising a rectangular cabinet having rear, bottom, top and sidewalls and having a front equipped with transparent doors and providing a hollow interior chamber, fluorescent light means mounted at the top of said chamber for delivering light in two spectral ranges, spaced tray support means in said chamber, at least one tray on one of said support means intermediate the height of said chamber and equipped with a transverse panel, fluorescent light tubes below said panel and carried in the bottom of said tray for delivering light in a third spectral range in a direction below said tray, and control means operatively connected with said chamber for selectively controlling the light means whereby a plurality of biological experiments can be performed simultaneously, the interior surfaces of said walls are formed of light-reflective material.

Classifications:

International (IPC 8-9): A01C1/02 B01L1/02

F24F5/00 (Advanced/Invention);

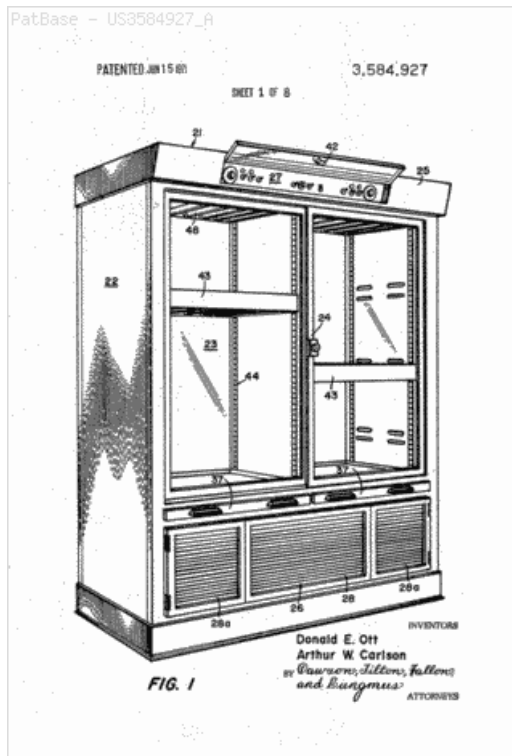
A01C1/00 B01L1/00 F24F5/00 (Core/Invention)

International (IPC 1-7): A01G31/02 A47F3/14

CPC: A01C1/025 B01L1/02 F24F5/00

European: A01C1/02 A01C1/02B B01L1/02 F24F5/00

US: 119/319 250/458.1 312/126 312/128 312/209 312/236 47/16

**Family:**

Publication number	Publication date	Application number	Application date
US3584927 A	19710615	US19690840766	19690710

Priority:

US19690840766 19690710

Probable Assignee:

SHELDON AND CO E H

Assignee(s): (std):

SHELDON AND CO E H

Assignee(s):

E H SHELDON AND CO

Inventor(s): (std):

CARLSON ARTHUR W ; OTT DONALD E

Inventor(s):

ARTHUR W CARLSON ; DONALD E OTT

11) Family number: 972635 (US3610716A)

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Title: ISOLATOR CRIB BANK

Abstract: (Claim 1) 1. 1. An isolator crib bank comprising an elongated rectangularly shaped air-filtering unit, said unit having a sheet metal housing with at least one air inlet opening and a plurality of rectangularly shaped grilles forming air outlet openings, said grilles being in a vertical wall of said housing, a pair of horizontally extending guide tracks extending outwardly from the lower corners of each of said grilles, a flat rectangularly shaped pallet slidably disposed between each pair of said guide tracks so as to be movable inwardly and outwardly relative to said vertical wall, a pair of vertically extending guide tracks extending upwardly from the outward ends of each pair of said horizontally extending guide tracks, a roll-type screen mounted at the front edge of each of said pallets with each screen being guidable by a pair of said vertically extending guide tracks when the pallet to which it is attached is in its most inwardly position, and vertically extending partition means attached to said guide tracks, said partition means extending normal to said vertical wall, said guide tracks being in the form of slots for receiving said pallets and said screens and at least four of said air outlet openings being arranged with one pair of side-by-side openings being immediately above a second pair of side-by-side openings.

Classifications:**International (IPC 8-9):** A47B96/18 A47D7/00 A61G10/02

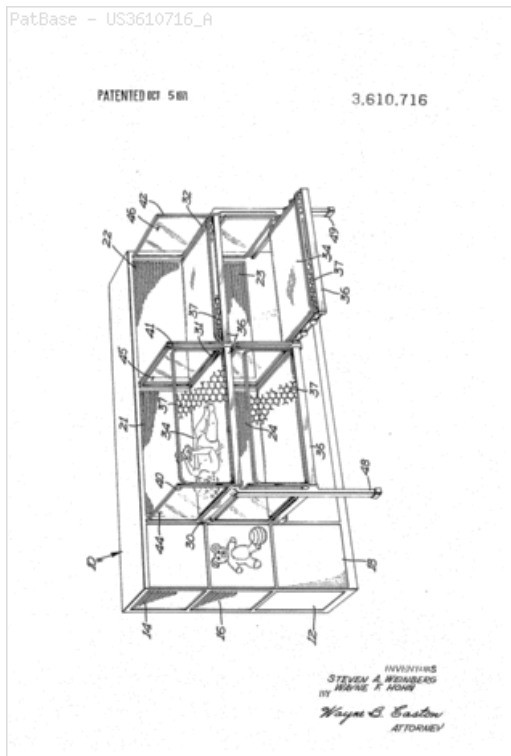
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A47B96/00 A47D7/00 A61G10/00 E06B9/11 (Core/Invention)

International (IPC 1-7): A47B77/08 A47B81/00 A47D7/00

A61B19/00 A61M16/02

CPC: Y10S55/29 A61G10/02 A47B96/18 A47D7/00 E06B9/115**European:** A47B96/18 A47D7/00 A61G10/02 E06B9/11F**US:** 312/236 5/423 5/93.1 55/DIG.29 600/22

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US19690859845 19690922

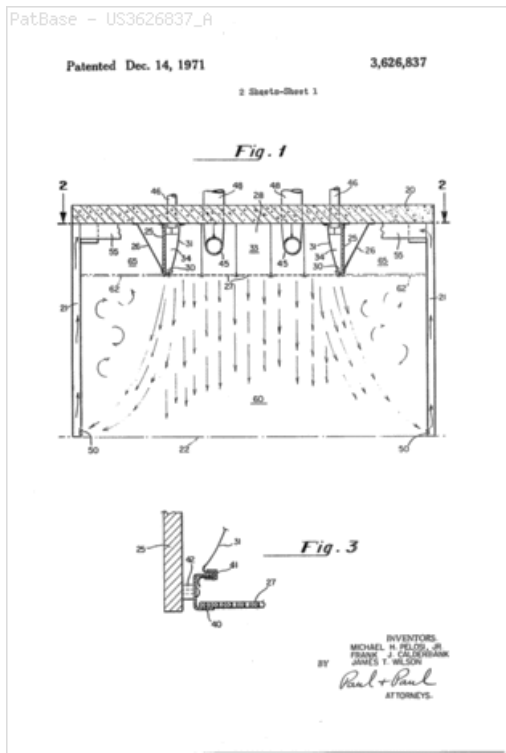
Probable Assignee: SCI MED**Assignee(s):** (std): SCI MED**Assignee(s):** SCI MED INC ; CARMCO LTD ; CARMCO LTD AKA SCI MED ENVIRONMENTAL SYSTEMS INC**Inventor(s):** (std): HOHN WAYNE F ; WEINBERG STEVEN H**Inventor(s):** STEVEN H WEINBERG ; WAYNE F HOHN**12) Family number: 982711 (US3626837A)**

© PatBase

Title: DUAL PLENUM FOR VENTILATING CEILINGS IN CLEAN ROOMS

Abstract: (Claim 1) 1. A system for providing a clean space freely accessible from without, comprising: a room having a ceiling, a floor, and sidewalls, which encompass and define said room; a second ceiling, suspended from said ceiling and being perforated and of smaller area than said ceiling; connecting means for supporting said second ceiling from said ceiling; a plenum wall displaced from and encompassing said second ceiling and extending from the level of said second ceiling to said ceiling, said plenum wall cooperating with said ceiling and said second ceiling to form a plenum; membrane means, connected from said ceiling within said plenum to the periphery of said second ceiling, for dividing said plenum into an outer plenum chamber and an inner plenum chamber; slot means between said second ceiling and said plenum wall, and encompassing said second ceiling and engaging said outer plenum chamber, for providing an outlet for air from said outer plenum chamber; first air supply means for providing air under pressure into said outer plenum chamber; and air return means at the lower part of said room for drawing and maintaining said air in a high velocity flow downward from said slot, thereby forming a continuous air curtain laterally surrounding a space within said room, said space being bounded above by said second ceiling and below by said floor.

Classifications:**International (IPC 8-9):** F24F3/16 F24F9/00 (Advanced/Invention); F24F3/16 F24F9/00 (Core/Invention)**International (IPC 1-7):** F24F7/00 F24F9/00**CPC:** F24F3/16 F24F9/00**European:** F24F3/16 F24F9/00**US:** 454/187 454/189

**Family:**

Publication number	Publication date	Application number	Application date
US3626837 A	19711214	US19700011053	19700213

Priority:

US19700011053 19700213

Probable Assignee: CHS IND INC**Assignee(s):** (std): CHS IND INC**Assignee(s):** CHS INDUSTRIES INC ; EQUITABLE BANK ; EQUITABLE BANK NATIONAL ASSOCIATION ; HARFORD SYSTEMS INC ; UNITED JERSEY BANK ; HARFORD SYSTEMS INC ABERDEEN MD A CORP OF**Inventor(s):** (std): WILSON JAMES T ; PELOSI MICHAEL H JR ; CALDERBANK FRANK J**Inventor(s):** MICHAEL H PELOSI JR ; JAMES T WILSON ; FRANK J CALDERBANK**13) Family number: 7630546 (US3790347A)**

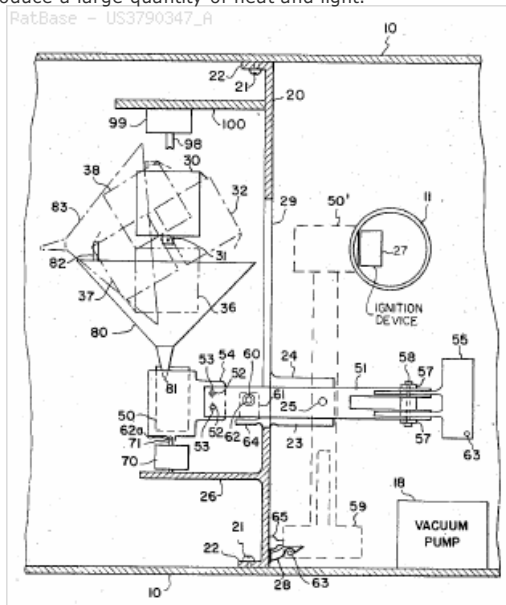
© PatBase

Title: APPARATUS FOR REMOTE HANDLING OF MATERIALS

Abstract: Apparatus for remote handling of materials. A closed housing is provided with first and second containers and first and second reservoirs for holding materials to be mixed. The materials are transferable from the reservoirs to the first container; in which they are mixed. The mixed materials are then conveyed from the first container to the second container preferably by dumping the mixed materials into a funnel positioned over the second container. The second container is then moved to a second position for analysis of the mixed materials. For example, the materials may be ignited and the flame analyzed. Access, such as a sight port, is provided in the housing at the analysis position. The device provides a simple and inexpensive apparatus for safely mixing a pyrophoric material such as barium metal and an oxidizer such as molybdenum trioxide which together form a thermite type mixture that burns to produce a large quantity of heat and light.

Classifications:**International (IPC 8-9):** B01L99/00 G21F7/005 (Advanced/Invention); B01L11/00 G21F7/005 (Core/Invention)**International (IPC 1-7):** B01F11/00 B01L1/00 G01N31/12**CPC:** B01L99/00 G21F7/005**European:** B01L99/00 G21F7/005**US:** 23/25.3PC 312/209 366/113 366/143 366/185 366/220 422/78 976/DIG.356

PatBase - US3790347_A



Family:

Publication number	Publication date	Application number	Application date
US3790347 A	19740205	US19710214084	19711230

Priority:

US19710214084 19711230

Probable Assignee: NASA**Assignee(s):** (std): NASA**Assignee(s):** NAT AERONAUTICS SPACE ADMINISTRATION US**Inventor(s):** (std): FLETCHER J ; HODDER D ; KIMBALL R ; WRINKLE W**Inventor(s):** WRINKLE W US ; KIMBALL R US ; HODDER D US ; FLETCHER J US**14) Family number: 4670386 (FR2497826A)**

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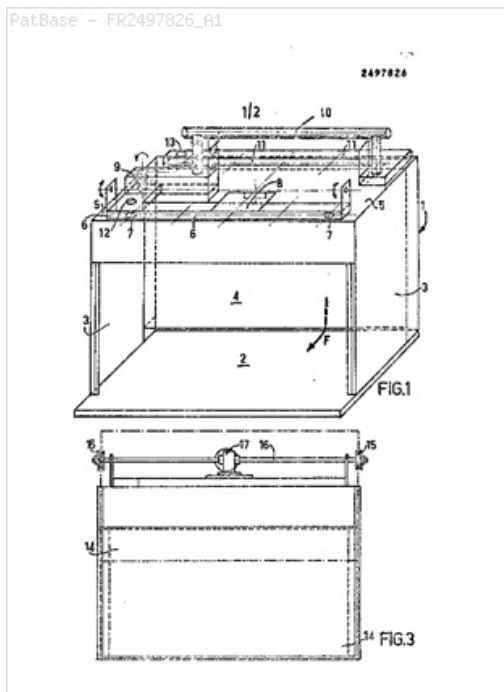
Title: VIRUS-FREE LABORATORY CABINET FOR HANDLING CELL CULTURES ETC. - CIRCULATES AIR THROUGH GERMICIDAL RADIATION PASSAGE OUTSIDE CABINET USING NO FILTER

Abstract: A laboratory hood or manipulation cabinet is claimed which provides a space with sterile atmos. in which biological media such as cell cultures can be handled. The cabinet is box-shaped and air-tight. An air circulation system is fitted which extracts air from the cabinet, and passes it through an external germicidal tube equipped with ultraviolet, ionising and/or infrared radiation emitters to destroy micro-organisms etc. air discharged by the germicidal tube is delivered into the cabinet. Air extracted from the cabinet can be exhausted to atmos. instead of being passed into the germicidal tube-this results in the cabinet space operating at a pressure below atmospheric. Air can be drawn into the germicidal tube directly from atmos. to create a pressure above atmospheric inside the cabinet. The cabinet is for use in biological and microbiological laboratories to provide a sterile atmosphere in which cell cultures etc. can be manipulated. The cabinet offers protection against all types of microorganisms including viruses. No filter is used so there are no problems of progressive filter blockage and potential hazard when cleaning or renewing filter elements. The germicidal treatment is carried out outside the cabinet so the interior is free for manipulation. The whole of the interior is sterile.

Classifications:**International (ipc 8-9):** A61L9/20 B01L1/04 B08B15/02

F24F3/16 (Advanced/Invention);

A61L9/18 B01L1/00 B08B15/00 F24F3/16 (Core/Invention)

International (ipc 1-7): B01L1/04 C12M1/12 C12N5/00**CPC:** B08B15/02 A61L9/20 B01L1/04 C12M37/00 F24F3/166**European:** A61L9/20 B01L1/04 B08B15/02 C12M37/00 F24F3/16C**Family:**

Publication number	Publication date	Application number	Application date
FR2497826 A1	19820716	FR19810000397	19810112
FR2497826 B1	19840831	FR19810000397	19810112

Priority:

FR19810000397 19810112

Probable Assignee: PASTEUR INST**Assignee(s):** (std): PASTEUR INST ; PASTEUR INSTITUT**Inventor(s):** (std): MARCOVICH HERBERT**Inventor(s):** HERBERT MARCOVICH**15) Family number: 4463709 (US4466341A)**

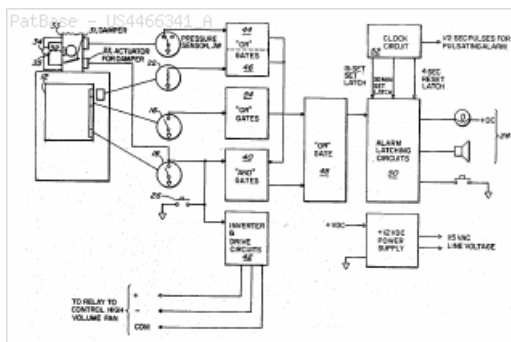
© PatBase

Title: Fume hood energy controller

Abstract: A control system for a fume hood, wherein limit switches sense the position of the sash, and pressure and light sensors monitor pressure changes in the fume hood and ambient light. A low volume fan continuously draws air through the fume hood. When the sash is opened the high volume fan is actuated. Air flow is monitored as the sash position is changed; and an alarm system is actuated when an unsafe condition exists.

Classifications:

International (IPC 8-9): B08B15/02 (Advanced/Invention)
International (IPC 1-7): F23J11/00
CPC: B08B15/02
European: B08B15/02
US: 340/611 454/61 981/15LH



Family:

Publication number	Publication date	Application number	Application date
US4466341 A	19840821	US19820450754	19821217

Priority:

US19820450754 19821217

Probable Assignee: GROGAN DENNIS R
Assignee(s): (std): GROGAN DENNIS R
Assignee(s): OL SNOW ASSOCIATES
Inventor(s): (std): GROGAN DENNIS R

16) Family number: 5415988 (US4701415A)

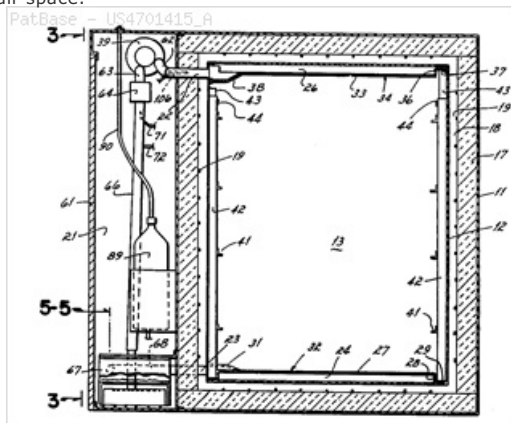
© PatBase

Title: CONTROLLED ATMOSPHERE ENCLOSURE

Abstract: An incubator for laboratory use which includes a housing defining a thermally insulated inner chamber having a controlled gas atmosphere. Devices for sensing characteristics of the incubator chamber atmosphere, and for conditioning the atmosphere, are positioned in a gas recirculation path outside the incubator chamber. The gas atmosphere of the incubator chamber circulates from a chamber outlet in an upper portion of the chamber, through the recirculation path, returning to the incubator chamber through a chamber inlet in a lower portion of the chamber. Included in the recirculation path are a blower for recirculating the chamber atmosphere, a filter, a CO₂ sensor, and a humidifier. A microprocessor-based controller is responsive to the output of the CO₂ sensor to effect the addition of CO₂ to the recirculating gas to maintain a selected CO₂ level in the chamber atmosphere. Upper and lower diffuser plates in the incubator chamber define upper and lower plenums, respectively. The upper plenum communicates with the chamber outlet, and the lower plenum communicates with the chamber inlet, to produce an upward vertical laminar flow of the gas atmosphere through the chamber. The incubator chamber walls are spaced inwardly from insulated outer walls to provide an enclosed air space about the outside of the chamber wall. Heaters inside the air space, spaced apart from the inner wall, are sized to produce substantially even heating of the chamber through convection in the air space.

Classifications:

International (IPC 8-9): B01L1/00 C12M1/00
C12M1/38 (Advanced/Invention);
B01L1/00 C12M1/00 C12M1/36 (Core/Invention)
International (IPC 1-7): C12M1/00 C12M1/36 C12M1/38
CPC: C12M29/24 B01L1/025 C12M37/02 C12M41/14 C12M41/34
European: B01L1/00 C12M29/24 C12M37/02 C12M41/14
C12M41/34
US: 435/286.6 435/289 435/291 435/303.1 435/311 435/313 55/467



Family:

Publication number	Publication date	Application number	Application date
EP0154536 A2	19850911	EP19850301447	19850301
EP0154536 A3	19870204	EP19850301447	19850301
JP60259178 A2	19851221	JP19850040980	19850301
US4701415 A	19871020	US19840585851	19840302

Priority:

US19840585851 19840302 US19840585893 19840302

Probable Assignee: MALLINCKRODT INC A DELAWARE CORPORATION

Assignee(s): (std): MALLINCKRODT INC ; MALLINCKRODT INC A DELAWARE CO ; MALLINCKRODT CHEMICAL WORKS
Assignee(s): MALLINCKRODT INC A DELAWARE CORPORATION ; MALLINCKRODT INC A MO CORP ; MALLINCKRODT INC A DELAWARE CORP ; MALLINCKRODT CHEM WORKS ; FORMA SCIENTIFIC INC ; FORMA SCIENTIFIC INC MARIETTA OHIO A CORP ; MALCO INC ; MALCO INC ST LOUIS MISSOURI A CORP OF DE
Inventor(s): (std): TIPTON RUSSELL C ; TIPTON RUSSEL C ; SELFRIDGE GLENN D ; RATSUSERU SHII TEITSUPUTON ; GUREN DEII SERUFURITSUJI ; EDOMANDO ERU DATSUTON ; DUTTON EDMUND L ; BESU EMU ATOKIN ; ATKIN BETH M
Designated states: DE FR GB NL SE

Title: CONTAMINATION CONTROL WORK STATION

Abstract: A work station for use when working with radioactive and other toxic or hazardous materials having an enclosed centralized work area which is normally open to the surrounding space in order to permit worker access, and in which a positive airflow is created into and within the work station to prevent the release of contaminated and toxic gases and particles through the access opening.

Classifications:

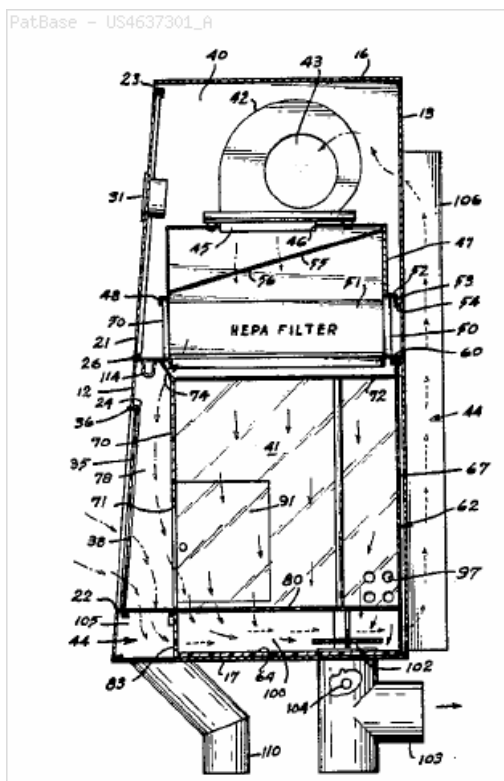
International (IPC 8-9): B05B15/12 B08B15/02 (Advanced/Invention);
B05B15/12 B08B15/00 (Core/Invention)

International (IPC 1-7): B05B15/12

CPC: B25H1/20 B08B15/023 B05B16/60 B08B2215/003

European: B05B15/12E B08B15/02B L08B215/00B

US: 454/57 98/115.3



Family:

Publication number	Publication date	Application number	Application date
US4637301 A	19870120	US19840577413	19840206

Priority:

US19840577413 19840206

Probable Assignee: ENVIROCO CORP

Assignee(s): (std): ENVIRONMENTAL AIR CONTROL

Assignee(s): ENVIRONMENTAL AIR CONTROL CO INC ; ENVIRONMENTAL AIR CONTROL INC ; SUNWEST BANK OF ALBUQUERQUE NA ; ENVIROCO CORP ; ALLIED INVESTMENT CORP ; ALLIED INVESTMENT II CORP ; CONGRESS FINANCIAL CORP ; DONALDSON CO INC ; ENVIRCO CORP

Inventor(s): (std): SHIELDS WILLIAM

Title: THERMOSTATIC DEVICE FOR PREMATURE INFANT AND NEWBORN

Abstract: An incubator for premature and newborn babies which comprises a housing in which a heat source can be inserted in a convection channel whose passage cross-section can be adjusted via a butterfly valve, a support delimiting part of the convection channel and a front plate exposing the access to the housing interior is to be improved in such a way that the air conveyed by the convection stream is disturbed as little as possible even during external interventions that may be necessary and that the temperature equilibrium in the incubator interior is maintained. To this end, it is provided that the front plate (6) be displaceable in the vertical direction and be held by a retainer (9) both in the closed and in the open position.

Classifications:

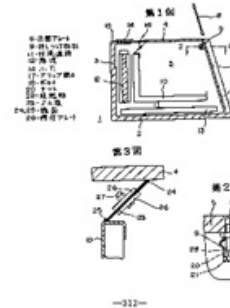
International (IPC 8-9): A61G11/00 (Advanced/Invention);
A61G11/00 (Core/Invention)

International (IPC 1-7): A61G11/00

CPC: A61G11/00

European: A61G11/00

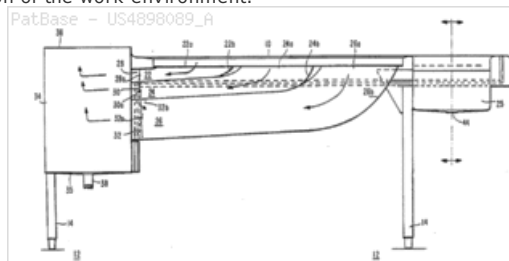
代理人 舟橋元 矢野 龍溪



Publication number	Publication date	Application number	Application date
BRPI8604459 A	19870519	BR1986PI04459	19860917
CN1012938 B	19910626	CN19861006339	19860918
CN86106339 A	19870408	CN19861006339	19860918
DE3533271 A1	19870319	DE19853533271	19850918
DE3533271 C2	19910228	DE19853533271	19850918
FR2587203 A1	19870320	FR19860013294	19860916
IN166438 A	19900505	IN1986DE00767	19860826
JP62068460 A2	19870328	JP19860218275	19860918

Inventor(s): JOCHIM KOCH ; KOCH JOCHIM DR 2411 HOLLENBECK DE

US: 454/49 55/DIG.18 98/115.1



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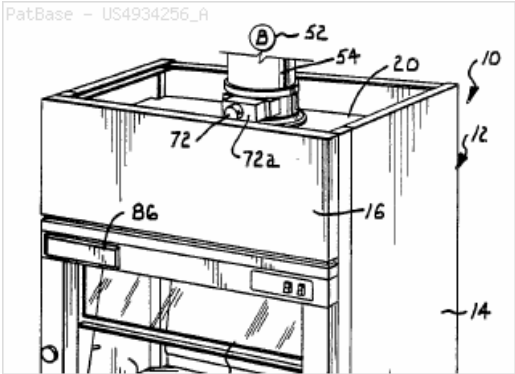
Assignee(s): (std): ROOS GEORGE B
Inventor(s): (std): ROOS GEORGE B

20) Family number: 3481955 (US4934256A) © PatBase

Title: Fume hood ventilation control system

Abstract: A method and apparatus for controlling ventilation of a laboratory fume hood. The face velocity of air entering the fume hood is sensed by a velocity sensor, and a stepping motor controls damper blades in the exhaust duct to normally maintain the face velocity at a nearly constant level. A potentiometer senses the position of a sash that controls the fume hood face opening. When the sash is 40 percent open or less, the damper blades are adjusted to keep the volume rate of flow through the fume hood nearly constant. An alarm signal is generated if the flow is unduly low. The damper blades are fully opened either if a switch is operated or if the sash is abruptly opened. An unoccupied mode permits reduced air flow when the sash is nearly closed and the laboratory is unoccupied.

Classifications:
International (IPC 8-9): B08B15/02 (Advanced/Invention);
B08B15/00 (Core/Invention)
International (IPC 1-7): B08B15/02
CPC: B08B15/023
European: B08B15/02B
US: 454/61



Family:

Publication number	Publication date	Application number	Application date
US4934256 A	19900619	US19890311148	19890214

Priority:
US19890311148 19890214

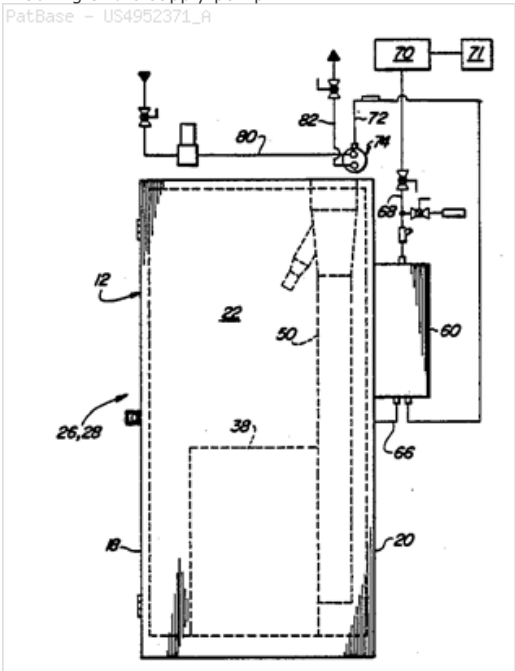
Probable Assignee: LABCONCO CORP
Assignee(s): (std): LABCONCO CORP
Inventor(s): (std): MOSS CHARLES A ; PTACEK JAMES F

21) Family number: 17916108 (US4952371A) © PatBase

Title: Volatile liquid catalyst handling system including distribution cabinet

Abstract: A system for delivering liquid catalyst to a core-making machine includes a single fireproof cabinet in which is located a catalyst storage tank. The storage tank receives catalyst from catalyst supply drums that are positioned one at a time in a pumping station located in the cabinet beside the tank and emptied into the tank by a barrel pump. A flash-off station is located in the cabinet beside the pumping station for receiving emptied drums and an exhaust hose, that is coupled to a scrubber system exhaust duct, is positionable within the drum to carry away vapors produced in the drum as residual catalyst flashes off. A catalyst supply pump is coupled for pumping liquid catalyst from the storage tank to a gassing unit of a core-making machine. Excess catalyst is returned from the gassing unit to the storage tank by way of a water-cooled heat exchanger which cools the returning catalyst and hence that remaining in the tank so as to keep the catalyst at a temperature low enough to prevent its vaporization and thus the vapor locking of the supply pump.

Classifications:
International (IPC 8-9): B22C9/12 F17D1/14 (Advanced/Invention)
International (IPC 1-7): B22D11/16 B65B1/30 B65B31/04 F17D1/14 G01N31/10
CPC: B22C9/123
European: B22C9/12A
US: 141/192 141/21 141/95 164/155.2 312/211 312/234 312/236 422/104 422/105 422/106 422/604 422/62 422/81



Family:

Publication number	Publication date	Application number	Application date
CA2014197 A A	19910117	CA19902014197	19900409
US4952371 A	19900828	US19890380409	19890717

Priority:

US19890380409 19890717 CA19902014197 19900409

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO

Assignee(s): DEERE AND CO MOLINE IL A CORP OF DE ; DEERE AND COMPANY ; WEHR CRAIG M

Inventor(s): (std): WEHR CRAIG M

Agent(s): BORDEN LADNER GERVAIS LLP

22) Family number: 11096787 (US5195922A)

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Title: Environmental control system

Abstract: An environmental control system including a modular isolation chamber wherein the work pieces and processing or other machinery are isolated from the remainder of the rooms in which they are located. Use of the portable, modular chambers also permits control over particulate contaminants and individualized regulation of differing processing environments within a single room.

Classifications:

International (IPC 8-9): F24F3/16 F24F7/06

H01L21/677 (Advanced/Invention);

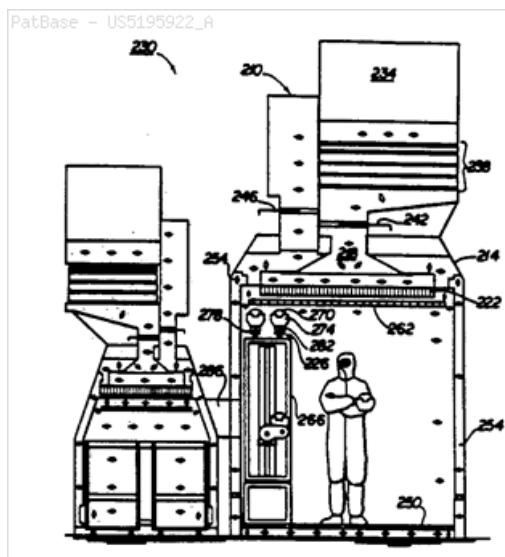
F24F3/16 (Advanced/Non-invention)

International (IPC 1-7): F24F3/16 F24F7/007 F24F7/06

CPC: F24F3/1607 F24F3/161 H01L21/67017 H01L21/67769

European: F24F3/16B3 F24F3/16B5 H01L21/677D4 H01L21/67S2D

US: 454/187 454/238 454/57 454/58

**Family:**

Publication number	Publication date	Application number	Application date
CN1119040 A	19960320	CN19941091417	19940126
EP0680584 A1	19951108	EP19940908638	19940126
EP0680584 A4	19970507	EP19940908638	19940126
JP8510826 T2	19961112	JP19940517286T	19940126
KR19960700435 A	19960120	KR19950703123	19950728
KR19967000435 A	19960120	KR19957003123	19940126
US5195922 A	19930323	US19910688645	19910419
US5401212 A	19950328	US19930033892	19930319
US5431599 A	19950711	US19930085287	19930630
WO9417336 A1	19940804	WO1994US00900	19940126

Priority:

US19900574970 19900829 US19900594970 19900829 US19910688645 19910419

US19930010534 19930128 US19930033892 19930319 US19930085287 19930630

WO1994US00900 19940126 WO1994US00900 19940126

Probable Assignee: INTELLIGENT ENCLOSURES CORP

Assignee(s): (std): INTELLIGENT ENCLOSURES CORP

Inventor(s): (std): MUNDT GREGORY K ; TANAKA MICHAEL B ; MILLER DAVID E ; MARVELL GREG A ; GENCO ROBERT M

Inventor(s): DAVID E MILLER ; GREG A MARVELL ; ROBERT M GENCO

Designated states: AT BE CH CN DE DK ES FR GB GR IE IT JP KR LU MC NL PT SE

23) Family number: 20352778 (US5810656A)

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Title: Toxic work enclosure

Abstract: PCT No. PCT/GB94/02431 Sec. 371 Date May 21, 1996 Sec. 102(e) Date May 21, 1996 PCT Filed Nov. 4, 1994 PCT Pub. No. WO95/12465 PCT Pub. Date May 11, 1995A toxic work enclosure (1) with a port (14) and a vent (18) that when installed within a fume cupboard (64) with both the port (14) and the vent (18) open, provides safe access to toxic materials, if present, in the toxic work enclosure (1); but with both the port (14) and the vent (18) closed, closed position isolates the toxic work enclosure (1) allowing environmental control of the air (104) within the toxic work enclosure (1), or safe removal

of the toxic work enclosure (1) from the fume cupboard (64) by containment of toxic materials, if present, in the toxic work enclosure (1).

Classifications:

International (IPC 8-9): B01L1/00 B01L1/02 B08B15/00 B08B15/02 C12M1/00 (Advanced/Invention);

B01L1/00 B08B15/00 C12M1/00 (Advanced/Non-invention);

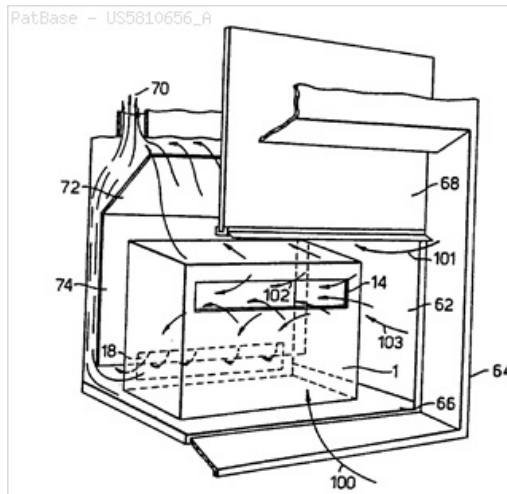
B01L1/00 B08B15/00 C12M1/00 (Core/Invention)

International (IPC 1-7): B01L1/00 B01L1/02 B08B B08B B08B15/00 B08B15/02 C12M1/00

CPC: B08B15/023

European: B08B15/02B

US: 454/187 454/56



Family:

Publication number	Publication date	Application number	Application date
AU199481103 A1	19950523	AU19940081103	19941104
AU687918 B2	19980305	AU19940081103	19941104
CA2175815 AA	19960503	CA19942175815	19941104
DE69412848 D1	19981001	DE19946012848	19941104
DE69412848 T2	19990211	DE19946012848T	19941104
EP0726820 A1	19960821	EP19950900199	19941104
EP0726820 B1	19980826	EP19950900199	19941104
FI961884 A	19960703	FI19960001884	19960503
FI961884 A0	19960503	FI19960001884	19960503
GB2298708 A1	19960911	GB19960009401	19941104
GB2298708 A8	19970428	GB19960009401	19941104
GB9322983 A0	19940105	GB19930022983	19931105
GB9609401 A0	19960710	GB19960009401	19941104
JP9504733 T2	19970513	JP19950513101T	19941104
NO961769 A	19960703	NO19960001769	19960502
NO961769 A0	19960502	NO19960001769	19960502
US5810656 A	19980922	US19960637795	19960521
WO9512465 A1	19950511	WO1994GB02431	19941104

Priority:

GB19930022983 19931105 WO1994GB02431 19941104

Probable Assignee: SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY S GOVERNMENT OF UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Assignee(s): (std): SECR DEFENCE ; DOWDELL GEOFFREY KEITH ; SEC DEP FOR DEFENCE DEFENCE RE ; SECR DEFENCE BRIT ; SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MA

Assignee(s): THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNI ; THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S G ; SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND THE ; THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND WHITEHALL LONDON GB ; SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S GOV OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND ; THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND ; THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND ; THE SECRETARY OF STATE FOR DEFENCE DEFENCE RESEARCH AGENCY ; SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY S ; STOKES BRIAN JAMES ; SECRETARY OF STATE FOR DEFENCE THE ; THE SECRETARY OF STATE FOR DEFENCE DEFENCE RESEARC ; THE SECRETARY OF STATE FOR DEFENCE ; SEC DEP FOR DEFENCE DEFENCE RESEARCH AGENCY ; JUDGE JAMES ; SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY S GOV ; SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY'S GO ; SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOV ; SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY S GOVERNMENT OF UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND ; SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY S ; SEC DEP FOR DEFENCE IN HER BRITANNIC MAJESTY S G ; SEC DEP FOR DEFENCE IN HER BRITANNI

Inventor(s): (std): GEOFFREY KEITH DOWDELL ; JAMES JUDGE ; JUDGE JAMES ; BRIAN JAMES STOKES ; DOWDELL GEOFFREY ; STOKES BRIAN JAMES ; DOWDELL GEOFFREY KEITH

Inventor(s): STOKES BRIAN JAMES AMESBURY WILTSHIRE GB ; DOWDELL GEOFFREY KEITH SALISBURY WILTSHIRE SP2 8DZ GB ; DOWDELL GEOFFREY KEITH SALISBURY WILTSHIRE SP2 8DZ ; JUDGE JAMES SALISBURY WILTSHIRE SP4 0JQ GB

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LU MC NL NO PT SE US

24) Family number: 9475224 (US5556331A)

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Title: Fume hood with air foil member

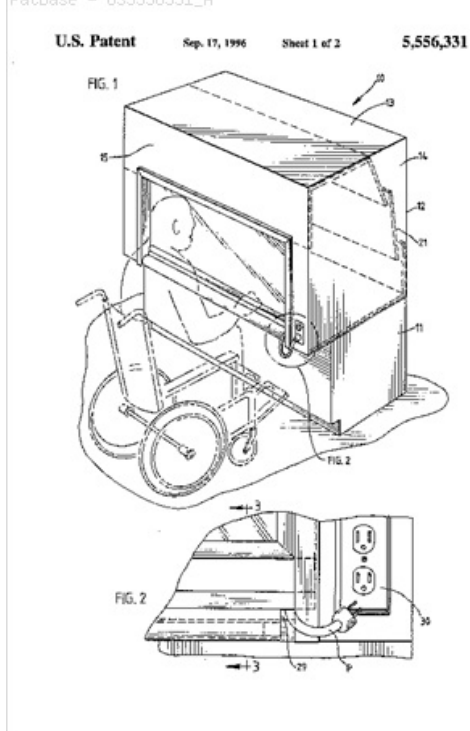
Abstract: A fume hood includes a base, sidewalls and a cover that define an enclosed work space, a work surface, at least one trough, and an access opening. The fume hood also includes a moveable sash for closing the opening and an air foil disposed proximate an edge portion of the opening to direct air flow through the opening and into the work space. This air foil includes a flat portion with a surface that normally lies flush with the work surface of the fume hood.

Classifications:**International (IPC 8-9):** B08B15/02 B25H1/20 (Advanced/Invention);

B08B15/00 B25H1/00 (Core/Invention)

International (IPC 1-7): B08B15/02**CPC:** B08B15/023 B25H1/20**European:** B08B15/02B B25H1/20**US:** 312/209 312/229 454/56

PatBase - US5556331_A

**Family:**

Publication number	Publication date	Application number	Application date
CA2141356 AA	19960721	CA19952141356	19950130
CA2141356 C	20060307	CA19952141356	19950130
US5556331 A	19960917	US19950371948	19950120

Priority:

US19950371948 19950120 CA19952141356 19950130

Probable Assignee: FISHER HAMILTON SCIENT INC**Assignee(s):** (std): FISHER HAMILTON SCIENT INC**Assignee(s):** FISHER HAMILTON INC ; FISHER HAMILTON LLC ; FISHER HAMILTON SCIENTIFIC INC ; JPMORGAN CHASE BANK ; FISHER SCIENTIFIC CO ; BASTIAN JOHN M ; CHASE MANHATTAN BANK AS COLLATERAL AGENT ; COLE PARMER INSTRUMENT CO ; DEUTSCHE BANK AG ; ERIE SCIENTIFIC CO ; FISHER CLINICAL SERVICES INC**Inventor(s):** (std): BASTIAN JOHN M**Agent(s):** BORDEN LADNER GERVAIS LLP**25) Family number: 11975786 (US5711705A)**

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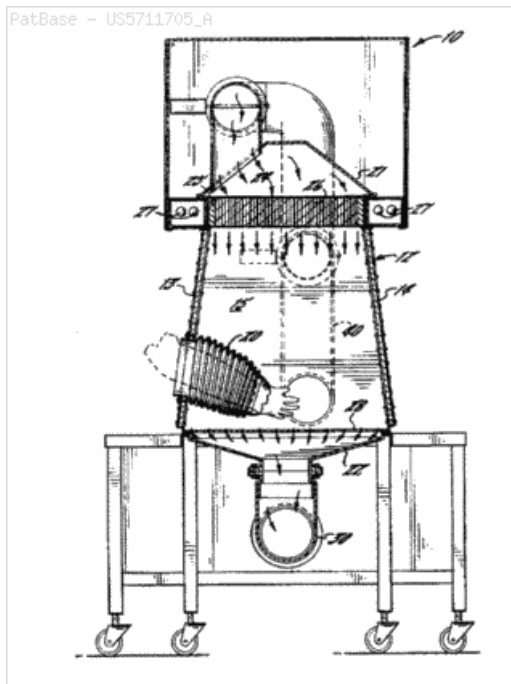
Title: Isolation work station**Abstract:** An isolation work station comprising an enclosure, and an air circulation system and high efficiency air filter for generating a downwardly directed laminar air flow through the enclosure. Periodic sterilization of the enclosure may be accomplished by adding a sterilant, such as vaporized hydrogen peroxide, to the airstream, and the filter is impregnated with a catalyst for degrading the vaporized hydrogen peroxide during the purge cycle and wherein the airstream is circulated at a relatively low speed so as to increase the residence time in the filter.**Classifications:****International (IPC 1-7):** B01L1/04 B08B15/02**CPC:** A61L2/208 A61L2/24 A61L9/16 A61L2202/122 A61L2202/16

B08B15/026 F24F3/1607

European: A61L2/20H A61L2/24 A61L9/16 B08B15/02G F24F3/16B3

K61L202/122 K61L202/160

US: 454/187 454/57 55/385.2 96/151

**Family:**

Publication number	Publication date	Application number	Application date
US5711705 A	19980127	US19950450529	19950525
US6010400 A	20000104	US19970968050	19971112

Priority:

US19950450529 19950525 US19970968050 19971112

Probable Assignee: FLANDERS FILTERS INC

Assignee(s): (std): FLANDERS FILTERS

Assignee(s): FLANDERS FILTERS INC ; FLEET CAPITAL CORP ; PNC BANK NATIONAL ASSOCIATION AGENT AS ; US BANK NATIONAL ASSOCIATION AGENT AS ; PNC BANK NATIONAL ASSOCIATION ; FLANDERS CORP ; FLANDERS CORPORATE OFFICE CORP

Inventor(s): (std): KRAINIAK RUSSELL EDWARD ; HUZA MARK ANTHONY

26) Family number: 11636102 (US5922973A)

© PatBase

Title: Noack-type test unit

Abstract: Apparatus for sample volatilization and collection has a housing which includes volatilization and collection equipment mounting adaptation(s) and a pressure gage for monitoring internal pressure of such equipment. The housing can contain power and/or power line(s) to include for heating the equipment and/or providing a vacuum for the equipment, and/or a device for providing an internal vacuum for the equipment; additional condition monitoring gage(s), and so forth. The apparatus can include the equipment, which can be especially adapted for Noack-type testing.

Classifications:

International (IPC 8-9): G01N33/03 G01N33/28 (Advanced/Invention); G01N1/40 G01N7/16 (Advanced/Non-invention)

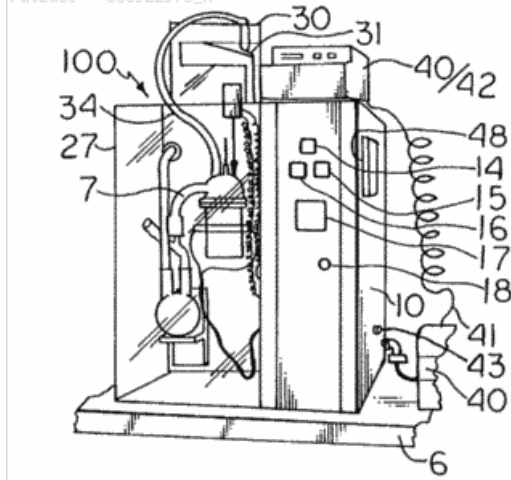
International (IPC 1-7): A47B81/00 G01N1/00 G01N25/56

CPC: G01N7/16 G01N33/03 G01N33/28 G01N2001/4027

European: G01N33/03 G01N33/28 S01N1/40B S01N1/40B1 S01N33/28 S01N7/16

US: 312/209 374/54 73/864

PatBase - US5922973_A

**Family:**

Publication number	Publication date	Application number	Application date
US5922973 A	19990713	US19970893632	19970711

Priority:

US19960773342 19961226 US19970893632 19970711

Probable Assignee: TANNAS CO

Assignee(s): (std): TANNAS CO
Inventor(s): (std): COTTER JAMES R ; HALL RICHARD H ; HILDEBRANDT MARC J ; SELBY THEODORE W ; TROMBLEY JOSEPH S

27) Family number: 12124785 (US6036737A)

© PatBase

Title: SAFETY CABINET HAVING EASILY ATTACHABLE AND DETACHABLE TRANSITION BOOT

Abstract: A safety cabinet having a work area defined by an enclosure and including an air circulation and cleaning system. The air circulation and cleaning system includes a plurality of air plenums and passageways through which air is circulated by a blower assembly. A portion of the air exiting the blower is directed through a transition boot and exhaust plenum and a remaining portion of the air exiting the blower assembly is directed into the work area through a perforated divider plate and a supply plenum. The transition boot between the exhaust and supply plenums include resealable fasteners disposed along a seam between first and second ends thereof and around a first end thereof which is attached to the exhaust plenum.

Classifications:

International (IPC 8-9): B01D46/42 B08B15/02 (Advanced/Invention); B01D46/42 B08B15/00 (Core/Invention)

International (IPC 1-7): B01D46/00

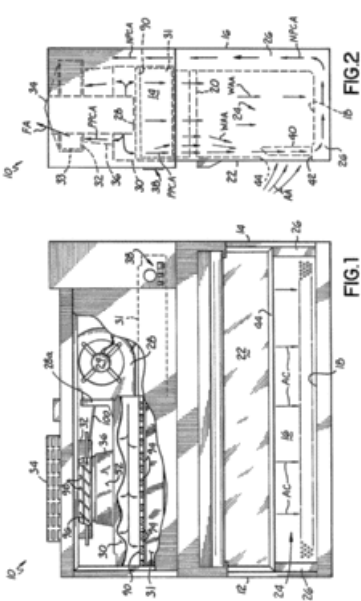
CPC: Y10S55/18 B01D46/42 B01D2265/02 B01D2271/02 B08B15/023 B08B2215/003

European: B01D46/42 B08B15/02B L01D265/02 L01D271/02 L08B215/00B

US: 454/56 454/57 454/58 454/62 55/385.2 55/471 55/473 55/491 55/DIG.18

PatBase - US6036737_R

U.S. Patent Mar. 14, 2000 Sheet 1 of 3 6,036,737



Family:

Publication number	Publication date	Application number	Application date
US6036737 A	20000314	US19980104790	19980625

Priority:

US19980104790 19980625

Probable Assignee: FORMA SCIENT INC

Assignee(s): (std): FORMA SCIENT INC

Assignee(s): FORMA SCIENTIFIC INC ; THERMO ELECTRON LABORATORY EQUIPMENT LLC ; THERMO FISHER SCIENTIFIC (ASHEVILLE) LLC ; THERMO FISHER SCIENTIFIC ASHEVILLE LLC ; THERMO FISHER SCIENTIFIC LLC ; THERMO FORMA INC ; THERMO FISHER SCIENTIFIC USA LLC

Inventor(s): (std): BROOKER MATT ; SMITH DENNIS H ; WAGER RAQUEL

28) Family number: 13078814 (US6446716B)

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Title: Working enclosure provided with means for recycling the atmosphere

Abstract: A working enclosure includes a working chamber whose walls delimit a confinement space for working in and an exterior branch loop for recycling the atmosphere of the confinement space. The branch loop opens at each end into the confinement space and includes means for circulating the atmosphere in the branch loop. The working enclosure includes filter members at each end of the branch loop.

Classifications:

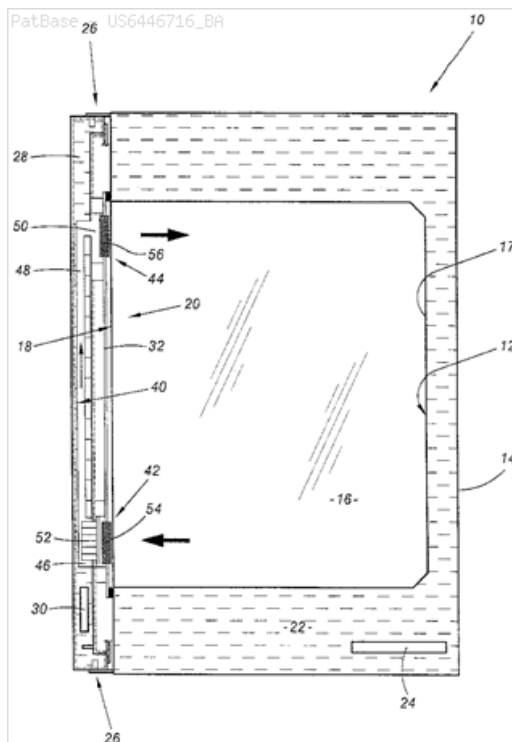
International (IPC 8-9): B01L1/00 B01L1/04 C12M1/00 F24F7/06 (Advanced/Invention); B01L1/00 C12M1/00 F24F7/06 (Core/Invention)

International (IPC 1-7): B01L1/00 B01L1/04 C12M3/06 E28B29/0 F24F7/06

CPC: B01L1/04

European: B01L1/04

US: 165/253 165/75 165/86 219/522 361/605 361/616



Family:

Publication number	Publication date	Application number	Application date
EP1066880 A1	20010110	EP20000401934	20000705
FR2795977 A1	20010112	FR19990008716	19990706
FR2795977 B1	20020517	FR19990008716	19990706
JP2001074285 A2	20010323	JP20000205044	20000706
US6446716 BA	20020910	US20000610354	20000705

Priority:

FR19990008716 19990706

Probable Assignee:

JOUAN

Assignee(s): (std):

JOUAN ; JOUAN SA

Assignee(s):

JOUAN RUE BOBBY SAND

Inventor(s): (std):

MARCHAL NORBERT ; MIMAUD LAURENT

Designated states:

DE FR GB IT

29) Family number: 29591016 (GB2382593A)

© PatBase

Title: A working enclosure providing a clean air zone in hazardous environments

Abstract: A working enclosure comprises a canopy 10 supported by a frame 11 with a skirt 12 to be held in close proximity with the contact surface. Magnetic pads 13 are provided to enable attachment of the enclosure to a metallic surface. A supply of clean air from a fan 23 is supplied to the interior of the canopy by an inlet duct 20 and maintained at a slight over pressure therein by controlled discharge from an outlet duct (Fig 2 item 30). The supply of clean air is monitored to detect contamination and the operation automatically shuts down the supply of air when the contamination alarm is raised. The pressure inside the enclosure is maintained when an operator enters or leaves by the provision of an air lock (Fig 2, 33).

Classifications:

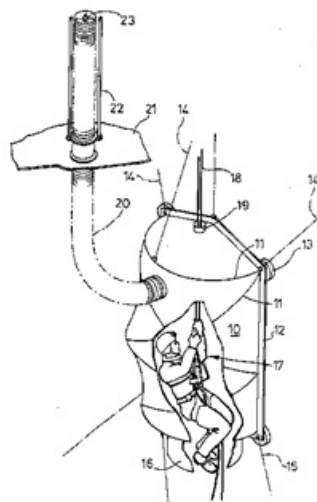
International (IPC 8-9): B08B15/02 E04H9/16 F24F3/12 F24F3/16 (Advanced/Invention)

International (IPC 1-7): E04H9/16 F24F3/12 F24F3/16

CPC: B08B15/02 F24F3/1607 F24F2011/0004

European: B08B15/02 F24F3/16B3 R24F11/00C1A

1/1

**Family:**

Publication number	Publication date	Application number	Application date
CA2426638 AA	20031105	CA20032426638	20030425
CA2426638 C	20050111	CA20032426638	20030425
GB200128534 A0	20020123	GB20010028534	20011129
GB2382593 A1	20030604	GB20010028534	20011129
GB2382593 B2	20050622	GB20010028534	20011129

Priority:

GB20010028534 20011129 CA20032426638 20030425

Probable Assignee: E M AND I MARITIME LTD**Assignee(s):** (std): E M AND I ; E M AND I MARITIME LTD**Assignee(s):** E M AND I LTD ; E M AND I MARITIME LIMITED ; CONSTANTINIS DANIEL ALEXANDER**Inventor(s):** (std): CONSTANTINIS DANIEL ALEXANDER**Inventor(s):** DANIEL ALEXANDER CONSTANTINIS**Agent(s):** BORDEN LADNER GERVAIS LLP**30) Family number: 28634358** (US2003109211A)

© PatBase

Title: FUME HOOD WITH ROTATABLE AIRFOIL

Abstract: A fume hood includes a top, bottom sidewalls, front panel and a back panel that define an enclosed workspace. The fume hood also includes a movable sash for opening and closing an access opening and an airfoil disposed proximate an edge portion of the opening to direct airflow through the opening and into the workspace. The airfoil is automatically raised from a down position to an up position when the sash is raised to a predetermined height. In addition, the airfoil may be automatically raised when the velocity of the airflow into the access opening decreases below a predetermined value. Once raised, the airfoil may be automatically or manually lowered to the down position. In one embodiment, the airfoil includes one or more fins having an angled portion that extends downwardly below the work surface of the fume hood when the airfoil is in the down position, thereby reducing the possibility of a potential spill when the technician removes an item from the workspace.

Classifications:**International (IPC 8-9):** B08B15/02 F23L3/00

F24F3/16 (Advanced/Invention);

B08B15/00 F23L3/00 F24F3/16 (Core/Invention)

International (IPC 1-7): B08B15/02 F23J11/00 F24C15/20 F24F11/00

F24F13/00 F24F7/00

CPC: B08B15/023 F23L3/00 F24F3/1607**European:** B08B15/02B F23L3/00 F24F3/16B3**US:** 454/56 454/57 454/58 454/59

Publication number	Publication date	Application number	Application date
AT328660 E	20060615	AT20040710332T	20040212
DE10316024 A1	20040826	DE20031016024	20030407
DE112004000669 D2	20051229	DE200411000669	20040212
DE502004000723 D1	20060720	DE200450000723T	20040212
EP1594612 A1	20051116	EP20040710332	20040212
EP1594612 B1	20060607	EP20040710332	20040212
US2006135055 AA	20060622	US20050545821	20050908
US7343815 BB	20080318	US20050545821	20050908
WO04071659 A1	20040826	WO2004DE00253	20040212

Priority:

DE20031005966 20030212 DE20031016024 20030407 DE200411000669 20040212
WO2004DE000253 20040212

Probable Assignee: KRAEMER GMBH ELEKTRONIK FA

Assignee(s): (std): KRAEMER GMBH ELEKTRONIK FA ; KRAEMER THILO ; KRAMER THILO

Assignee(s): FA KRAEMER GMBH ELEKTRONIK

Inventor(s): (std): KRAEMER THILO ; KRAMER THILO

Agent(s): HORST M KASPER; KASPER HORST M; HORST M

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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

32) Family number: 32384642 (US2005245188A)

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Title: BIOLOGICAL SAFETY CABINET

Abstract: A biological safety cabinet comprises a cabinet body, an experiment chamber, a blower, and a soft material chamber. The cabinet body is cuboid and comprises a first elongated side. The experiment chamber is disposed in the cabinet body. The blower impels air in a direction parallel to the first elongated side. The soft material chamber is connected to the blower, wherein air flows from the blower through the soft material chamber and into the experiment chamber.

Classifications:

International (ipc 8-9): B08B15/02 F24F3/16 F24F7/00

F24H3/02 (Advanced/Invention);

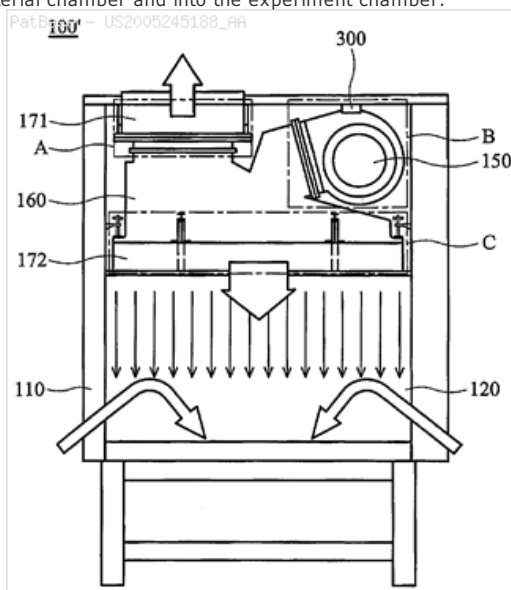
B08B15/00 F24F3/16 F24F7/00 F24H3/02 (Core/Invention)

International (ipc 1-7): B08B15/02 F24F7/00 F24H3/02

CPC: B08B15/023 B08B2215/003 F24F3/1607

European: B08B15/02B F24F3/16B3 L08B215/00B

US: 454/49 454/49P



Family:

Publication number	Publication date	Application number	Application date
TW200534933 A	20051101	TW20040111934	20040428
TW200621388 A	20060701	TW20040141165	20041229
TWI237582 B	20050811	TW20040141165	20041229
TWI249438 B	20060221	TW20040111934	20040428
US2005245188 AA	20051103	US20050113972	20050426

Priority:

TW20040111934 20040428 TW20040141165 20041229

Probable Assignee: INDUSTRIAL TECHNOLOGY RESEARCH INST

Assignee(s): (std): IND TECH RES INST

Assignee(s): INDUSTRIAL TECHNOLOGY RESEARCH INST ; INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE

Inventor(s): (std): HSU KUO JUN ; HSU YU REN ; FHUANG JIA HONG ; HUANG JIA HONG ; LU CHUNG HSIEN ; SHU YU REN ; TANG HSIN DAR ; WU CHEN JUNG ; WU YU TANG ; ZHAO HAO TING

Inventor(s): WU, TU TANG

Agent(s): BIRCH STEWART KOLASCH AND BIRCH

33) Family number: 32475571 (US2005269351A)

© PatBase

Title: METHOD AND MECHANISM TO SEAL A VESSEL FOR A HIGHLY PRESSURIZED COMBUSTION-SUPPORTABLE OR FLAMMABLE GAS

Abstract: In a method relating to this invention to seal a vessel, firstly, a discharge mouth and a charge mouth are provided respectively to the vessel, and the discharge mouth is previously sealed at openable state. Then the charge mouth is surrounded by an airtight space, and the charge mouth is sealed in the space after the highly pressurized combustion-supportable or flammable gas is charged into the space and the vessel. In a mechanism relating to this invention to seal a vessel, a discharge mouth and a charge mouth respectively provided to a vessel for a highly pressurized combustion-supportable or flammable gas are sealed respectively, and the discharge mouth only is sealed at openable state.

Classifications:

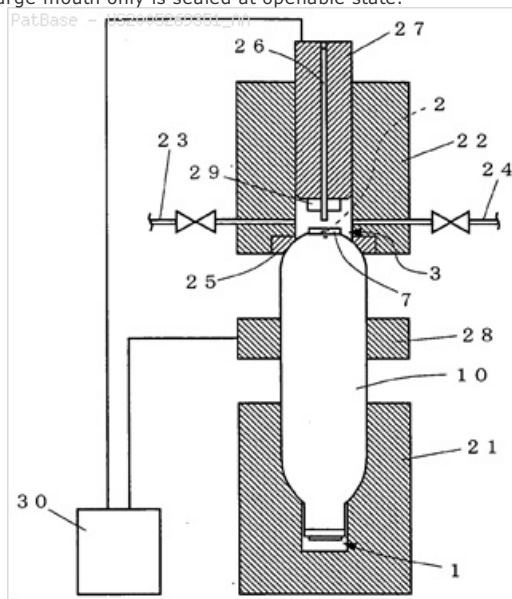
International (IPC 8-9): B67B7/00 B67D7/60 F17C1/00 F17C1/14 F17C13/06 F17C5/00 F17C5/06 G01F11/00 (Advanced/Invention); B67B7/00 B67D7/58 F17C1/00 F17C13/00 F17C5/00 G01F11/00 (Core/Invention)

International (IPC 1-7): B67B7/00 B67D5/42 F17C1/00 F17C13/06 F17C5/06 G01F11/00

CPC: F17C1/14 F17C5/00 F17C2201/0109 F17C2201/058 F17C2203/0617 F17C2203/0636 F17C2205/032 F17C2209/221 F17C2209/224 F17C2209/234 F17C2209/236 F17C2221/011 F17C2221/012 F17C2221/03 F17C2221/032 F17C2221/033 F17C2225/0123 F17C2225/036 F17C2260/036 F17C2260/042 F17C2270/0736 Y02E60/321

European: F17C1/14 F17C5/00 R17C201/01A1 R17C201/05D R17C203/06A7A1 R17C203/06B1 R17C205/03L3C R17C209/22A R17C209/22B R17C209/23C R17C209/23C1 R17C221/01A R17C221/01C R17C221/03 R17C221/03B R17C221/03B1 R17C225/01A3 R17C225/03D R17C260/03B1 R17C260/04A R17C270/07D Y02E60/32B

US: 222/1 222/1P



Family:

Publication number	Publication date	Application number	Application date
DE602005033719 D1	20120614	DE200560033719T	20050519
EP1610052 A2	20051228	EP20050253094	20050519
EP1610052 A3	20101103	EP20050253094	20050519
EP1610052 B1	20120418	EP20050253094	20050519
JP2005331036 A2	20051202	JP20040149881	20040520
JP4260678 B2	20090430	JP20040149881	20040520
US2005269351 AA	20051208	US20050127686	20050512

Priority:

JP20040149881 20040520 EP20050253094 20050519

Probable Assignee: NIPPON TANSAN GAS CO LTD

Assignee(s): (std): NIPPON TANSAN GAS CO LTD

Assignee(s): NIPPON TANSAN GAS CO

Inventor(s): (std): MIYAKE MASAMI ; MIYAKE MASAYOSHI ; SATO MASAO ; YAZAKI RYUICHI

Agent(s): HEYER VOLKER DIPL PHYS DRERNAT; SMITH NORMAN IAN; KODA AND ANDROLIA

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 MK NL PL PT RO SE SI SK TR YU

34) Family number: 42497025 (US2008278041A)

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Title: CABLE PORT FOR BIOSAFETY CABINET

Abstract: A biosafety cabinet includes at least one cable port disposed in a wall of the cabinet that allows small tubing and/or cables to enter the cabinet through the walls. The cable port eliminates problems associated with running the tubing and/or cables through an open door at the front of the cabinet. The cable ports enable the user to fully close the view screen door, while maintaining the ability to connect various tubes and/or cables to devices in the interior work area of the cabinet. The biosafety cabinet further includes a double wall configuration with negative pressure air space between the two walls. Air and byproducts or contaminants attempting to escape from the cabinet into the room or enter the cabinet from the outside environment is captured in the negative pressure area between the walls and transported directly to an air filter.

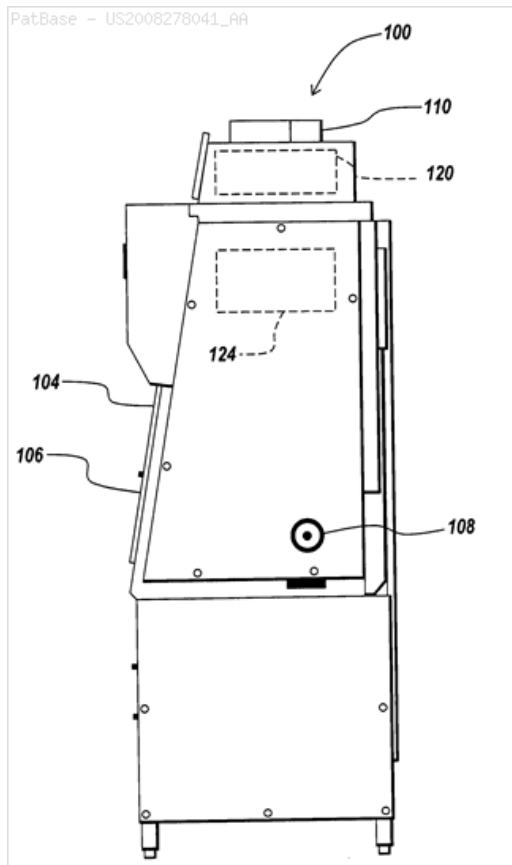
Classifications:

International (IPC 8-9): B01L1/04 (Advanced/Invention); B01L1/00 (Core/Invention)

CPC: B01L1/04 B01L2200/082 F24F3/1607 F24F2011/0005

European: B01L1/04 F24F3/16B3 L01L200/08A R24F11/00C1C

US: 174/650 174/650S 312/209 312/209P

**Family:**

Publication number	Publication date	Application number	Application date
US2008278041 AA	20081113	US20070901581	20070918

Priority:

US20070928510P 20070510 US20070901581 20070918

Probable Assignee: BAKER CO

Assignee(s): (std): BAKER CO ; BAKER COMPANY

Assignee(s): THE BAKER COMPANY

Inventor(s): (std): CARPENTER SCOTT R ; GINGRAS RONALD W ; JOHNSON D AARON ; LLOYD ROBERT E ; MCCARTHY LARRY A ; ROGERS MARTIN S ; THIBEAULT ROBERT A

Agent(s): LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000

35) Family number: 42497035 (US2008278042A)

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Title: BIOSAFETY CABINETS WITH AIR FILTERS ACCESSIBLE THROUGH THE WORK CHAMBER

Abstract: A biosafety cabinet includes one or more air filters below the work surface and a system for holding, sealing, replacing and disposing the air filters through the work access opening of the biosafety cabinet. The air filters under the work surface of the biosafety cabinet capture particulates entering the cabinet from the exterior environment and the particulates within the cabinet's work chamber. Instead of a mechanical clamp, the perimeter of the air filters are sealed using a gasket and a tape, eliminating the accumulation of the contaminants around mechanical clamps. The air filters may be accessed through the work access opening of the biosafety cabinet, packaged for disposal and removed from the biosafety cabinet without being exposed to the exterior environment. A filter cover with an adhesive surface is used to cover and lift the used, contaminated air filter within the biosafety cabinet.

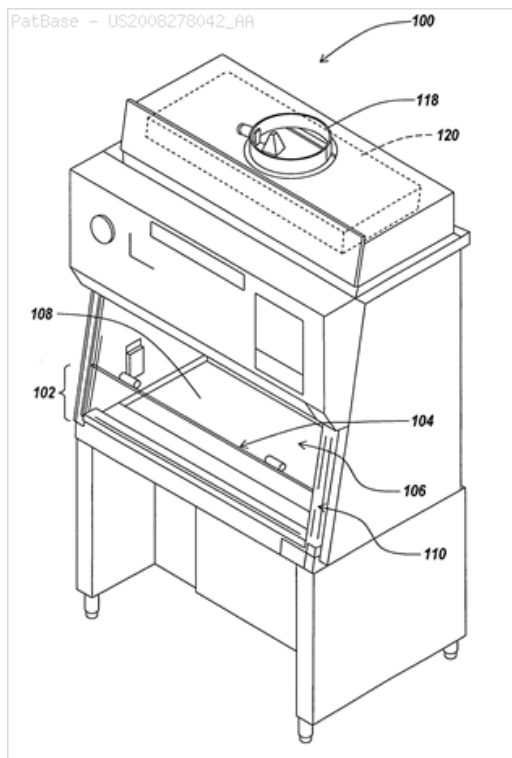
Classifications:

International (IPC 8-9): A47B81/00 B01D46/00 B01D50/00
B01L1/04 B08B15/02 (Advanced/Invention);
A47B81/00 B01D46/00 B01D50/00 B08B15/00 (Core/Invention)

CPC: B01D46/0091 B01D2265/04 B01L1/04 B01L2200/082
B08B15/02

European: B01D46/00S50 B01L1/04 B08B15/02 L01D265/04
L01L200/08A

US: 1/1 312/209 312/209P 454/56 454/56S 55/385.2 55/385.200S
95/273 95/273S



Family:

Publication number	Publication date	Application number	Application date
US2008278042 AA	20081113	US20080009977	20080123
US9095802 BB	20150804	US20080009977	20080123

Priority:

US20070928509P 20070510 US20080009977 20080123

Probable Assignee:

Assignee(s): (std): BAKER CO ; BAKER COMPANY ; CAMPBELL JOHN KEITH ; GINGRAS RONALD W ; JOHNSON D AARON ; LLOYD ROBERT E ; THIBEAULT ROBERT A ; ROGERS MARTIN S ; KLINGBEIL GENE ; MCCARTHY LARRY A

Assignee(s): THE BAKER COMPANY

Inventor(s): (std): THIBEAULT ROBERT A ; ROGERS MARTIN S ; MCCARTHY LARRY A ; KLINGBEIL GENE ; JOHNSON D AARON ; CAMPBELL JOHN KEITH ; LLOYD ROBERT E ; GINGRAS RONALD W

Agent(s): LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000; MORSE BARNES BROWN AND PENDLETON PC; SEAN D

36) Family number: 43083808 (US2010156257A)

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Title: SAFETY CABINET

Abstract: A safety cabinet has a body adapted to contain hazardous substances and having an upright front side, a base underneath the cabinet and adapted to support the cabinet spaced above an underlying floor. The base having an upright front wall below the body, set back from the front side thereof, and formed with a plurality of air intake openings, and structure in the base forming a suction-vent passage extending from the intake openings.

Classifications:

International (IPC 8-9): A47B67/04 A47B81/00 A47B96/00 B01L1/04

F24F7/00 F24F7/06 (Advanced/Invention);

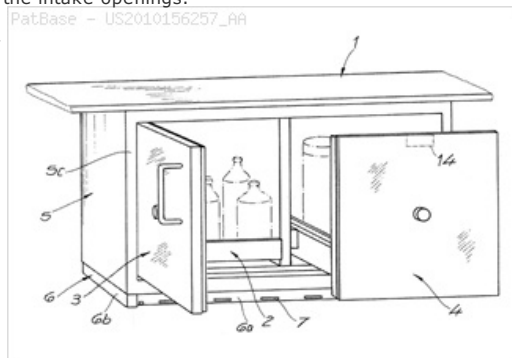
A47B67/00 A47B81/00 A47B96/00 B01L1/00 F24F7/00

F24F7/06 (Core/Invention)

CPC: A47B81/00 A47B2200/06 B01L1/50

European: A47B81/00 B01L1/00B B01L1/50 K47B200/06

US: 312/237 312/237P 454/254 454/254S 454/341 454/341S



Family:

Publication number	Publication date	Application number	Application date
DE202008016975 U1	20090319	DE200820016975U	20081220
US2010156257 AA	20100624	US20090510290	20090728

Priority:

DE200820016975U 20081220

Probable Assignee:

DUEPERTAL SICHERHEITSTECHNIK GMBH AND CO KG

Assignee(s): (std): BACKHAUS FRANK ; DUEPERTHAL SICHERHEITSTECHNIK
Assignee(s): DUEPERTHAL SICHERHEITSTECHNIK GMBH AND CO KG
Inventor(s): (std): BACKHAUS FRANK
Agent(s): KF ROSS PC

37) Family number: 43227126 (US2010044372A)

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Title: PORTABLE AND COLLAPSIBLE CHEM./BIO. ISOLATORS

Abstract: A portable and collapsible isolator is taught for containing radioactive, chemical or biological agents. The isolator is comprised of a collapsible frame, movable between a collapsed transport position and an open operational position, and a flexible and collapsible envelope in the form of an airtight bag attached to the frame to define a cavity. The envelope remains airtight in both the collapsed and open positions. One or more sealable openings are formed in the envelope for insertion and removal of the radioactive, chemical and biological agents into and out of the cavity. The isolator may optionally include at least one glove extending from one or more of said sealable openings into the cavity, for handling said radioactive, chemical and biological agents inside the cavity.

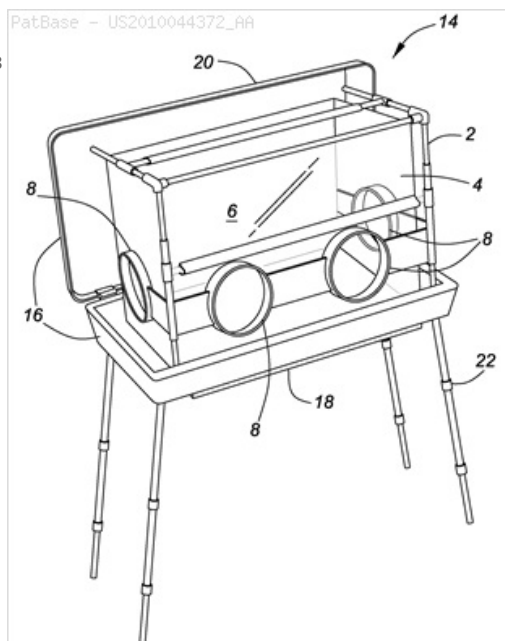
Classifications:

International (IPC 8-9): B25J1/02 B65D33/01 B65D33/02 B65D33/04 B65D51/16 B65D6/16 B65D81/18 B65D90/12 B65D90/28 B65D90/48 F42D5/00 (Advanced/Invention); B25J1/00 B65D33/00 B65D33/01 B65D33/02 B65D51/16 B65D6/16 B65D81/18 B65D90/00 B65D90/12 B65D90/22 F42D5/00 (Core/Invention)

CPC: B01L1/04 B25J21/02 B08B15/026

European: B01L1/04 B25J21/02

US: 220/203.01 220/203.010S 220/371 220/371S 220/373 220/373S 220/661 220/661S 220/662 220/662S 220/676 220/676S 220/745 220/745S 220/9.2 220/9.200P 220/913 220/913S



Family:

Publication number	Publication date	Application number	Application date
CA2642162 AA	20090430	CA20082642162	20081027
US2010044372 AA	20100225	US20080258753	20081027

Priority:

US20070983717P 20071030 US20080258753 20081027

Probable Assignee: ISOTECH DESIGN CANADA INC

Assignee(s): (std): CANADA NATURAL RESOURCES

Assignee(s): HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED B ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED BY MINISTER OF AS ; HER MAJESTY QUEEN IN RIGHT OF CANADA REPRESENTED BY MINISTER OF PUBLIC SAFETY AS ; HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF ; HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF PUBLIC SAFETY ; ISOTECH DESIGN CANADA INC

Inventor(s): (std): BURCZYK ANDREW ; CARON PIERRE ; HEISZ MARIANNE ; KOURNIKAKIS BILL ; MCDIARMID CARL ; PATRABOY TIM ; PEEKE JAMES ; PERREAULT DANIEL ; POIRIER SYLVAIN ; SUMMERELL IAN

Agent(s): RISSMAN HENDRICKS AND OLIVERIO LLP

38) Family number: 41750332 (US2009215376A)

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Title: LABORATORY CONTAINMENT SYSTEM

Abstract: A laboratory bench-top fume hood comprises an enclosure containing a working chamber with a frontal opening for manual access and airflow into the chamber. A plenum behind the working chamber is connectable to an air extraction system. An apertured, curved baffle plate separates the working chamber from the plenum, and is convex from the plenum side, improving airflow and increasing usable volume of the working chamber. Slots in the baffle plate may be fitted with guide vanes extending into the plenum. A slot adjacent a roof of the working chamber is effective for creating evenly-distributed air flows. The roof may be curved to encourage an airflow to follow the roof profile to the baffle plate. Sidewalls of the working chamber may bow outwardly but converge towards the opening. The baffle plate may comprise a set of separately dismountable panels, to aid cleaning and provide access to the plenum.

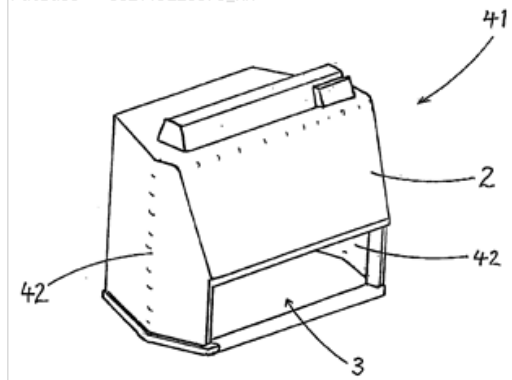
Classifications:

International (IPC 8-9): B01L1/00 B01L1/02 B08B15/00 B08B15/02 (Advanced/Invention); B01L1/00 B08B15/00 (Core/Invention)

CPC: B08B15/023 B01L1/50 B01L1/00

European: B01L1/00 B01L1/00B B01L1/50 B08B15/02B

US: 454/56 454/57 454/57P 454/61

**Family:**

Publication number	Publication date	Application number	Application date
EP2103351 A1	20090923	EP20090002657	20090225
GB200803379 A0	20080402	GB20080003379	20080225
GB2457546 A1	20090826	GB20080003379	20080225
GB2457546 B2	20120919	GB20080003379	20080225
US2009215376 AA	20090827	US20090392626	20090225
US8628388 BB	20140114	US20090392626	20090225

Priority:

GB20080003379 20080225

Probable Assignee: A1 ENVIROSCIENCES LTD**Assignee(s):** (std): A1 ENVIROSCIENCES LTD ; CODLING SEAN PATRICK**Assignee(s):** A1 ENVIROSCIENCES LIMITED**Inventor(s):** (std): CODLING SEAN ; CODLING SEAN PATRICK**Inventor(s):** SEAN CODLING**Agent(s):** FRANKS AND CO SOUTH LIMITED; JEFF ROTHENBERG HESLIN ROTHENBERG FARLEY AND MESITI PC; HESLIN ROTHENBERG FARLEY AND MESITI PC**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 MK MT NL NO PL PT RO RS SE SI SK TR**39) Family number: 44051570 (US2009298405A)**

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Title: LOW AIRFLOW EXHAUST CANOPY FOR BIOLOGICAL CABINETS

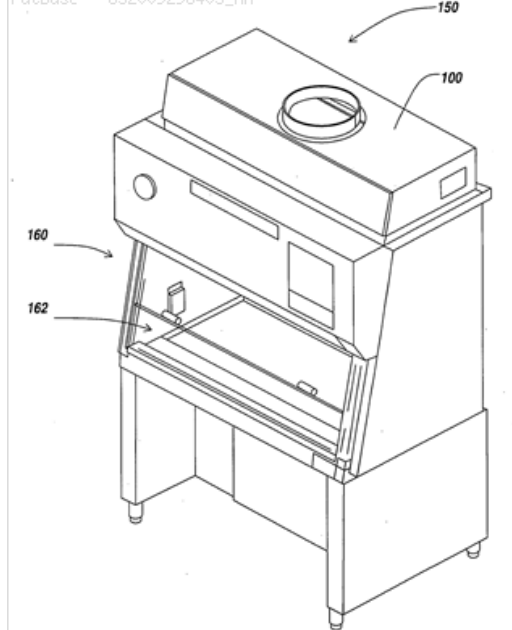
Abstract: A canopy for a biological cabinet includes a plurality of openings, referred to as ports, covered by air dampers and designed to open and close as needed to reduce an overall volume of air required during normal operation. If the building exhaust system attempts to pull more air than is supplied by the cabinet, the intake dampers will open to allow room air in through the intake ports, thus helping the cabinet to maintain an acceptable level of intake airflow at its front access opening. If the building exhaust system does not pull a sufficient amount of air, the outlet damper will open and let the cabinet exhaust air escape through the outlet port, thus enabling the cabinet to maintain an acceptable level of intake airflow at its front access opening. The canopy may also include an internal air baffle that helps to capture the cabinet exhaust air and direct it out through the opening connected to the building exhaust duct.

Classifications:**International (IPC 8-9):** F24F13/08 F24F7/007 (Advanced/Invention);

F24F13/08 F24F7/007 (Core/Invention)

CPC: B08B15/023 F24F3/1607**European:** B08B15/02B F24F3/16B3**US:** 454/333 454/333S 454/358 454/358S 454/62 454/62P

PatBase - US2009298405_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2009298405 AA	20091203	US20080244234	20081002

Priority:

US20080003967P 20080528 US20080244234 20081002

Probable Assignee: BAKER CO**Assignee(s):** (std): BAKER CO ; BAKER COMPANY**Assignee(s):** THE BAKER COMPANY**Inventor(s):** (std): D ALESSANDRO CHRISTOPHER P ; LLOYD ROBERT E ; MCCARTHY LARRY A ; THIBEAULT ROBERT A**Inventor(s):** D'ALESSANDRO CHRISTOPHER P**Agent(s):** LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000**40) Family number: 47422364 (CN101862688A)**

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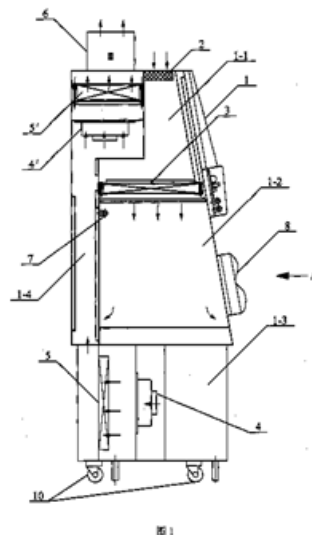
Title: THREE-GRADE BIOLOGICAL SAFETY CABINET

Abstract: The invention relates to a biological safety device, in particular to a three-grade biological safety cabinet. The three-grade biological safety cabinet comprises a cabinet body, wherein a first filter chamber, a work chamber, a second filter chamber and an air exhaust passage are arranged in the cabinet body, the first filter chamber and the second filter chamber are respectively arranged above and under the work chamber, the air exhaust passage is arranged at the back side of the first filter chamber, the work chamber and the second filter chamber, the air exhaust passage is mutually sealed with the first filter chamber and the work chamber, the top of the first filter chamber is provided with a primary effect filter, an air blasting high-efficiency filter is arranged between the first filter chamber and the work chamber, a first wind exhaust fan and a first wind exhaust high-efficiency filter are arranged between the second filter chamber and the air exhaust passage, a second wind exhaust fan and a second wind exhaust high-efficiency filter are arranged in the air exhaust passage, the second wind exhaust fan and the second wind exhaust high-efficiency filter are arranged near an outlet of the air exhaust passage, and a glove window and a transfer window are respectively connected on the front side and the lateral side of the work chamber in a sealed way. The invention has the advantages of high filter efficiency and stable work performance.

Classifications:**International (IPC 8-9):** B01L1/04 (Advanced/Invention)

PatBase - CN101862688_A

CN 101862688 A 说明书附图 1/5页

**Family:**

Publication number	Publication date	Application number	Application date
CN101862688 A	20101020	CN201010176551	20100519

Priority:

CN201010176551 20100519

Probable Assignee: SUZHOU JINJING PURIFY EQUIPMENT SCIENCE CO LTD**Assignee(s):** (std): SUZHOU JINJING PURIFY EQUIPMENT SCIENCE CO LTD**Assignee(s):** SUZHOU JINJING PURIFY EQUIPMENT SCIENCE CO**Inventor(s):** (std): ZHIMING LING**Inventor(s):** LING ZHIMING**41) Family number: 49953090 (US2011281514A)**

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Title: APPARATUS FOR DIRECTING AIR FLOW IN A BIOLOGICAL SAFETY CABINET

Abstract: A biological safety cabinet with several air flow directional control enhancements. A perforated air intake grille within the work chamber inwardly adjacent the user access opening has a forwardly facing make-up air intake surface and a rearwardly facing internal air intake surface angled in converging relation to promote a physical division between intake of ambient air and internal air into the cabinet's air recirculation system. An aerodynamic user arm rest is affixed to a support stand to extend alongside the access opening at a spacing outwardly from the housing to assist in directing make-up air to the ambient air intake opening without cross-contamination between the arm rest and the work chamber. An air transmission grille above the work chamber has a horizontal main extent terminating at a spacing from the sash and an upwardly angled

extent adjacent the sash to direct increased laminar air flow downwardly along the sash.

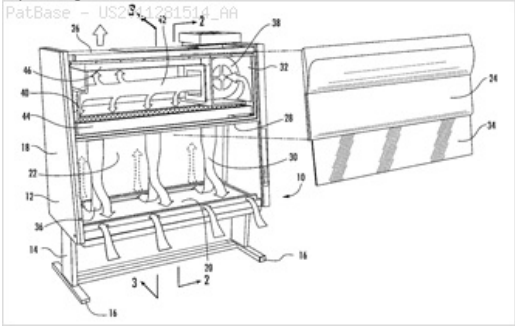
Classifications:

International (IPC 8-9): B08B15/02 B64D (Advanced/Invention)

CPC: B08B15/023 B08B2215/003

European: B08B15/02B L08B215/00B

US: 454/57 454/57P



Family:

Publication number	Publication date	Application number	Application date
IN01277DE2011 A	20121109	IN2011DE01277	20110502
SG176361 A1	20111229	SG20110002919	20110426
US2011281514 AA	20111117	US20100777948	20100511

Priority:

US20100777948 20100511

Probable Assignee: KEWAUNEE SCIENTIFIC CORP

Assignee(s): (std): HAUGEN ROBERT KENNETH ; KEWAUNEE SCIENT CORP ; RAMOS ARTURO ; RINDOKS KURT P

Assignee(s): KEWAUNEE SCIENTIFIC CORP

Inventor(s): (std): HAUGEN ROBERT KENNETH ; RAMOS ARTURO ; RINDOKS KURT P

Inventor(s): ROBERT KENNETH HAUGEN ; KURT P RINDOKS ; ARTURO RAMOS

Agent(s): DREW AND NAPIER LLC

42) Family number: 53291269 (US2013074261A)

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Title: GROSSING STATION

Abstract: A grossing station for use with performing autopsy, necropsy or pathology procedures comprises a table and an overhead hood connected to a top surface of the table. The grossing station further comprises a blower and ventilation system arranged in the table to move air across the table from a front to rear direction. The grossing station also comprises a trough arranged in an upper surface of the table, wherein the trough receives a plurality of interchangeable grid plates or sinks therein. The grossing station also comprises a first and second panel arranged at the side of the hood in order to create a fume hood for use by the user of the grossing station.

Classifications:

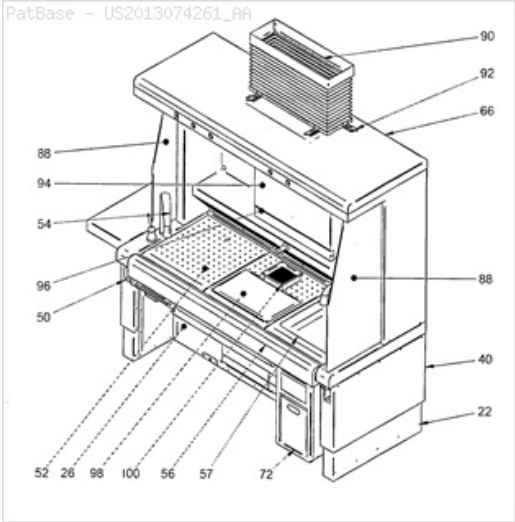
International (IPC 8-9): A61B16/00 A61G13/00 A61G13/06

A61G13/10 F24F7/00 (Advanced/Invention)

CPC: A61G13/102 A61G13/107 A61G13/108 F24F7/00 A61G13/0027

A61G13/06

US: 1/1 454/49 454/56 5/600



Family:

Publication number	Publication date	Application number	Application date
CA2849744 AA	20140321	CA20122849744	20120926
US2013074261 AA	20130328	US20110200636	20110927
US2017087040 AA	20170330	US20160279635	20160929
US9463129 BB	20161011	US20110200636	20110927
WO13049117 A2	20130404	WO2012US57210	20120926
WO13049117 A3	20130523	WO2012US57210	20120926

Priority:

US20110200636 20110927

WO2012US57210 20120926

US20160279635 20160929

Probable Assignee: MP ACQUISITION LLC

Assignee(s): (std): HALLMAN GEORGE ; MOPEC INC ; MP ACQUISITION LLC

Inventor(s): (std): HALLMAN GEORGE

Agent(s): MACRAE AND CO; RAGGIO AND DINNIN PC; RAGGIO MICHAEL T

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 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 PA PE PG PH PL PT QA RO RS RU RW 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