

Search query (4): [SP]: embodiment(s) of the present disclosure will be more readily appreciated by reference to the drawings wherein: figs. 1-2 are perspective views of the handheld steamer apparatus in accordance with the principles of the present disclosure illustrating the handle segment and the head segment fig. 3 is a side elevation view of the handheld steamer apparatus fig. 4 is a top plan view of the handheld steamer apparatus fig. 5 is a side plan view of the handheld steamer apparatus positioned on a support surface and supported by a resting block on the rear of the head segment figs. 6 and 7 are perspective and side plan views illustrating the double boiler system of the handheld steamer apparatus fig. 8 is a perspective view with parts separated of the first and second heating chambers of the double boiler system fig. 9 is a top plan illustrating the flow path of the steam within the first and second heating chambers of the double boiler system figs. 10-11 are perspective views of the trigger in release and secured positions respectively figs. 12-14 are views illustrating various arrangements for heating the iron soleplate of the handheld steamer figs. 15 and 16 illustrate use of the handheld steamer apparatus in respective vertical and horizontal arrangements relative to the garment and fig. 17 illustrates various attachments for use with the handheld steamer apparatus.

Results: 39

Search history

Search PN=(WO2016090538) (Results 1)

1:

Search 2: [SP]: 1. a steamer apparatus, which comprises: a housing defining a steam outleta fluid reservoir for storing fluida steam generator mounted in said housing and in fluid communication with said fluid reservoir for generating steam and releasing said steam through said steam outlet, said steam generator including a first boiler for heating steam to a first temperature and a second boiler in fluid communication with said first boiler for heating said steam to a second temperature greater than said first generatora pump for pumping said fluid from said fluid reservoir to said steam generatora trigger mounted to said housing, said trigger adapted to move from an inoperative condition to an operative condition to activate one of said pump and said steam generator anda trigger lock associated with said trigger, said trigger lock movable between a release position permitting free movement of said trigger between said inoperative condition and said operative condition and a lock position securing said trigger in said operative condition. 2. the steamer apparatus according to claim 1 wherein said first temperature is at least about 100 degrees centigrade and said second temperature is at least about 130 degrees centigrade 3. the steamer apparatus according to claim 1 wherein said housing includes a slot extending therethrough for release of heat generated by said steam generator. 4. the steamer apparatus according to claim 3 wherein said slot is generally crescent-shaped. 5. a steamer apparatus, which comprises: a housing defining a steam outlet, said housing defines a resting block in opposed relation to said steam outlet, said resting block dimensioned for positioning upon a support surface to orient said steam outlet facing away from said support surfacea fluid reservoir for storing fluida steam generator mounted in said housing and in fluid communication with said fluid reservoir for generating steam and releasing said steam through said steam outleta pump for pumping said fluid from said fluid reservoir to said steam generatora trigger mounted to said housing, said trigger adapted to move from an inoperative condition to an operative condition to activate one of said pump and said steam generatora trigger lock associated with said trigger, said trigger lock movable between a release position permitting free movement of said trigger between said inoperative condition and said operative condition and a lock position securing said trigger in said operative condition andan indicator light within said resting block for providing visual indication of said pump in said operative position. 6. the steamer apparatus according to claim 1 including an ironing sole plate mounted to said housing, said steam outlet extending through said ironing sole plate. 7. the steamer apparatus according to claim 6 wherein said ironing sole plate is dimensioned to be heated by said steam as said steam passes through said steam outlet. 8. the steamer apparatus according to claim 6 wherein said ironing sole plate is in contact with said steam generator whereby heat is transferred from said steam generator to said ironing sole plate. 9. the steamer apparatus according to claim 6 including a heater associated with said ironing sole plate to heat said ironing sole plate. 10. a steamer apparatus, which comprises: a housing defining a steam outleta fluid reservoir for storing fluida steam generator mounted in said housing and in fluid communication with said fluid reservoir for generating steam and releasing said steam through said steam outlet, said steam generator including a first boiler for heating said steam to a first temperature and a second boiler in fluid communication with said first boiler for heating said steam to a second temperature greater than said first generatora pump for pumping said fluid from said fluid reservoir to said steam generator anda trigger mounted to said housing, said trigger adapted to move from an inoperative condition to an operative condition to activate one of said pump or said steam generator. 11. the steamer apparatus according to claim 10 including an indicator light within said housing for providing visual indication of said pump in said operative position. 12. the steamer apparatus according to claim 10 including an ironing sole plate mounted to said housing, said steam outlet extending through said ironing sole plate. (Results 0)

Search 3: [SP]: 1. a steamer apparatus, which comprises: a housing defining a steam outleta fluid reservoir for storing fluida steam generator mounted in said housing and in fluid communication with said fluid reservoir for generating steam and releasing said steam through said steam outlet, said steam generator including a first boiler for heating steam to a first temperature and a second boiler in fluid communication with said first boiler for heating said steam to a second temperature greater than said first generatora pump for pumping said fluid from said fluid reservoir to said steam generatora trigger mounted to said housing, said trigger adapted to move from an inoperative condition to an operative condition to activate one of said pump and said steam generator anda trigger lock associated with said trigger, said trigger lock movable between a release position permitting free movement of said trigger between said inoperative condition and said operative condition and a lock position securing said trigger in said operative condition. 2. the steamer apparatus according to claim 1 wherein said first temperature is at least about 100 degrees centigrade and said second temperature is at least about 130 degrees centigrade 3. the steamer apparatus according to claim 1 wherein said housing includes a slot extending therethrough for release of heat generated by said steam generator. 4. the steamer apparatus according to claim 3 wherein said slot is generally crescent-shaped. 5. a steamer apparatus, which comprises: a housing defining a steam outlet, said housing defines a resting block in opposed relation to said steam outlet, said resting block dimensioned for positioning upon a support surface to orient said steam outlet facing away from said support surfacea fluid reservoir for storing fluida steam generator mounted in said housing and in fluid communication with said fluid reservoir for generating steam and releasing said steam through said steam outleta pump for pumping said fluid from said fluid reservoir to said steam generatora trigger mounted to said housing, said trigger adapted to move from an inoperative condition to an operative condition to activate one of said pump and said steam generatora trigger lock associated with said trigger, said trigger lock movable between a release position permitting free movement of said trigger between said inoperative condition and said operative condition and a lock position securing said trigger in said operative condition andan indicator light within said resting block for providing visual indication of said pump in said operative position. 6. the steamer apparatus according to claim 1 including an ironing sole plate mounted to said housing, said steam outlet extending through said ironing sole plate. 7. the steamer apparatus according to claim 6 wherein said ironing sole plate is dimensioned to be heated by said steam as said steam passes through said steam outlet. 8. the steamer apparatus according to claim 6 wherein said ironing sole plate is in contact with said steam generator whereby heat is transferred from said steam generator to said ironing sole plate. 9. the steamer apparatus according to claim 6 including a heater associated with said ironing sole plate to heat said ironing sole plate. 10. a steamer apparatus, which comprises: a housing defining a steam outleta fluid reservoir for storing fluida steam generator mounted in said housing and in fluid communication with said fluid reservoir for generating steam and releasing said steam through said steam outlet, said steam generator including a first boiler for heating said steam to a first temperature and a second boiler in fluid communication with said first boiler for heating said steam to a second temperature greater than said first generatora pump for pumping said fluid from said fluid reservoir to said steam generator anda trigger mounted to said housing, said trigger adapted to move from an inoperative condition to an operative condition to activate one of said pump or said steam generator. 11. the steamer apparatus according to claim 10 including an indicator light within said housing for providing visual indication of said pump in said operative position. 12. the steamer apparatus according to claim 10 including an ironing sole plate mounted to said housing, said steam outlet extending through said ironing sole plate. (Results 0)

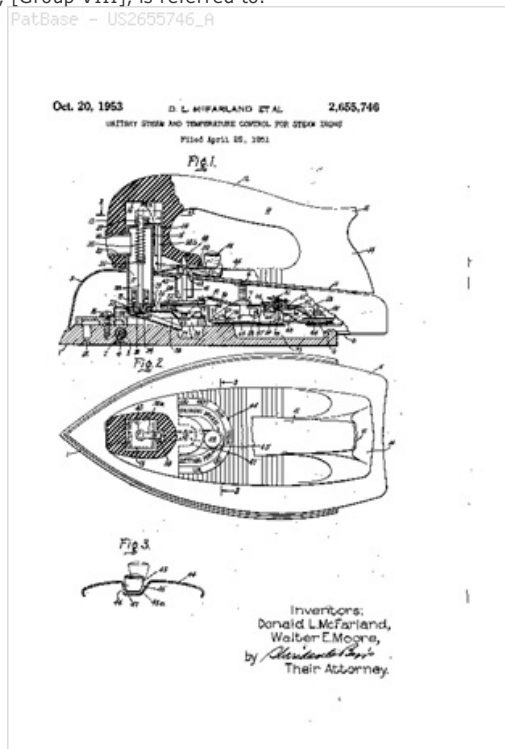
Search 4: [SP]: embodiment(s) of the present disclosure will be more readily appreciated by reference to the drawings wherein: figs. 1-2 are perspective views of the handheld steamer apparatus in accordance with the principles of the present disclosure illustrating the handle segment and the head segment fig. 3 is a side elevation view of the handheld steamer apparatus fig. 4 is a top plan view of the handheld steamer apparatus fig. 5 is a side plan view of the handheld steamer apparatus positioned on a support surface and supported by a resting block on the rear of the head segment figs. 6 and 7 are perspective and side plan views illustrating the double boiler system of the handheld steamer apparatus fig. 8 is a perspective view with parts separated of the first and second heating chambers of the double boiler system fig. 9 is a top plan illustrating the flow path of the steam within the first and second heating chambers of the double boiler system figs. 10-11 are perspective views of the trigger in release and secured positions respectively figs. 12-14 are views illustrating various arrangements for heating the iron soleplate of the handheld steamer figs. 15 and 16 illustrate use of the handheld steamer apparatus in respective vertical and horizontal arrangements relative to the garment and fig. 17 illustrates various attachments for use with the handheld steamer apparatus. (Results 39)

Title: UNITARY STEAM AND TEMPERATURE CONTROL FOR STEAM IRONS**Priority:** US19510222806 19510425**Family:**

	Publication number	Publication date	Application number	Application date
■	FR1059983 A	19540330		19520422
■	GB694296 A	19530715	GB19520010331	19520424
■	US2655746 A	19531020	US19510222806	19510425

Probable Assignee: GEN ELECTRIC**Assignee(s):(std):** BRITISH THOMSON HOUSTON CO LTD ; GEN ELECTRIC ; THOMSON HOUSTON COMP FRANCAISE**Assignee(s):** THE BRITISH THOMSON HOUSTON COMPANY LIMITED ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY ; COMPAGNIE FRANCAISE THOMSON HOUSTON**Inventor(s):(std):** MCFARLAND DONALD L ; MOORE WALTER E**International class (IPC 8-9):** D06F75/18 D06F75/26 (Advanced/Invention);
D06F75/08 (Core/Invention)**International class (IPC 1-7):** D06F75/18 D06F75/26 H05B1/02**CPC:** D06F75/18 D06F75/265**European class:** D06F75/18 D06F75/26B**US class:** 38/77.83[Classification Explorer](#)**Cited documents:** US2441586 A, US2411199 A, US2342716 A, US2342653 A,**Forward Citations:** WO11076828, US9845568, US5829175, US5572810, US5526596, US3188757, US3115718, US3105314, US2908092, US2903804, US2871588, US2786288, US2786287, US2786286, US2777224, US2749633, DE1281995, DE1039988, DE1033629,**Abstract:**

694,296. Thermal switches. BRITISH THOMSON-HOUSTON CO., Ltd. April 24, 1952 [April 25, 1951], No. 10331/52. Class 38(v) [Also in Group VIII] A thermal switch for an electric iron (see Group VIII) comprises contacts 65, 66 carried by switch arms 63, 67 respectively, the arm 67 being movable by means of a bimetallic bar 69, and the switch is adjustable by means of a lever 56 which is pivoted at 58 and engaged at one end by a cam 55 mounted on a rod 41 which can be rotated by means of a lever 39. An adjusting screw 61 is threaded into the other end of the lever 56 and carries an insulating stop 62 adapted to bear on switch arm 63. The bimetallic bar 69 is preferably formed of two reversed sections to minimize temperature overshoot and carries a switch actuator 74 of refractory insulating material. Specification 684,617, [Group VIII], is referred to.



Title: STEAM AND LIQUID SPRAY IRON
Priority: US19570666577 19570619 US19570666659 19570619 US19570666660 19570619
Family:

Publication number	Publication date	Application number	Application date
DE1082220 B	19600525	DE1958G024780	19580619
DE1082221 B	19600525	DE1958G024781	19580619
DE1095779 B	19601229	DE1958G024782	19580619
FR1209989 A	19600304		19580619
GB881434 A	19611101	GB19580019491	19580618
GB889950 A	19620221	GB19580016442	19580522
GB890558 A	19620307	GB19580019489	19580618
GB892512 A	19620328	GB19580019490	19580618
US3002302 A	19611003	US19570666577	19570619
US3041756 A	19620703	US19570666659	19570619
US3041757 A	19620703	US19570666660	19570619

Probable Assignee: GEN ELECTRIC
Assignee(s):(std): GEN ELECTRIC ; THOMSON HOUSTON COMP FRANCAISE
Assignee(s): COMPAGNIE FRANCAISE THOMSON HOUSTON ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY
Inventor(s):(std): SWENSON ALFRED GEORGE ; SWENSON ALFRED G ; FOSTER HAROLD SNYDER ; FOSTER HAROLD S ; FLOWERS THOMAS ROBERT ; FLOWERS THEODORE R
International class (IPC 8-9): D06F75/18 D06F75/22 H02K44/04 (Advanced/Invention); D06F75/08 H02K44/00 (Core/Invention)
International class (IPC 1-7): D06F75/18
CPC: D06F75/18 H02K44/04 D06F75/22
European class: D06F75/18 D06F75/22 H02K44/04
US class: 38/77.5 38/77.81

[Classification Explorer](#)

Cited documents: US2892272 A, US2810218 A, US2805497 A, US2802288 A, US2794275 A, US2769258 A, US2762143 A, US2755575 A, US2755574 A, US2729904 A, US2716297 A, US2662316 A, US2520360 A, US2499185 A, US2387757 A, US2387281 A, US2165541 A, GB768538 A, DE345560 A,

Forward Citations: WO04085732, WO03102292, WO03102292, USD743662, USD737012, US9845568, US9328454, US8539700, US7093384, US6935056, US6807756, US6745504, US5787614, US5606810, US5421110, US5038501, US4939856, US4586278, US4550514, US3919793, US3881265, US3722117, US3497974, US3407522, US3337975, US3218742, US3201880, US3188758, US3183610, US3146540, US3136080, US3128568, US3077900, US2017348706, US2012324768, US2005069302, US2004200825, US2004128873, US2003221342, US2003221341, JP54027479, JP51027352, JP50112585, JP50016285, JP48059900, JP47015787, GB2504896, GB2485553, GB2485553, GB2484532, GB2484532, FR2809120, FR2695946, FR2648164, FR2550241, FR2516561, ES2265259, EP2441881, EP1509649, EP0682138, EP0589262, EP0453567, EP0405770, EP0080634, DE4310273, DE3430120, DE3345047, DE3328453, DE19614511, DE1289510, DE1266135, DE102004032361, DE102004032361, DE10025233, DE10025233, AU624001,

Abstract:

881,434. Steam irons. GENERAL ELECTRIC CO. June 18, 1958 [June 19, 1957], No. 19491/58. Class 138 (2). In a steam iron having a normally closed water reservoir 31 and a valve 9, 34 controlling the water flow to a steam generating chamber 7, the steam is conducted through a passage having a pressure regulating valve and leading into the reservoir 31 connected to a spray nozzle 50 with water and steam supply conduits 54 and 58 and manually operable external means for covering or uncovering the discharge opening of the spray nozzle, which may be an end cap 61 slidable thereon (Figs. 1 and 6). The water tube 54, with an inlet screen 55 extends from the reservoir's lower portion to the nozzle 50. The reservoir 31 with a fill opening 42 has a water fill valve comprising a stem 34 with a disc 47 bearing on a seat 46 biased to the closed position by steam pressure in the reservoir and by a spring 41, and to the open position by a weaker spring 48, the stem 34 on pressing the button 38 relieving the pressure of the spring 41. The stem 34 has a projection 49 which extends over the stem 24 of the pressure regulating valve 23, 24, 26 capable of opening it. The steam from the water control valve is adapted consecutively to close the fill valve, to open the pressure regulating valve and to relieve the pressure of the spring 41 against the fill valve. A baffle 33 is arranged in the reservoir 31 surrounding at least the steam tube 52 which leads to the tube 58. Steam passage is deflected by a member 17 to prevent steam flowing directly to the nozzle 50. The pressure regulating valve also acts as a steam discharge valve (Fig. 3), through ports 22, a valve bushing 23, slidably mounted on the valve stem 24, carrying a sealing disc 26 which is biased by a spring 25a against the valve seat 23, a second sealing disc 24a carried by the stem 24 being biased by a spring 25 into sealing engagement with the bushing 25. The nozzle 50 comprises a steam tube 58 with an orifice 64 aligned with a passage 65 through a water tube 54, the cap 61 being outwardly movable for spray discharge through an opening 51 by means of a yoke member 67, lever 69, shank 71 and push-button 72. A rotated knob 75 on an arm 76, connected to a knob 77 and sprocket 78, may be operated to control temperature by driving, e.g. a bead chain, acting on a switch mechanism, and may be held in place by a spring 81. Apart from the nozzle assembly shown in Fig. 6, four other forms are described.

July 3, 1962

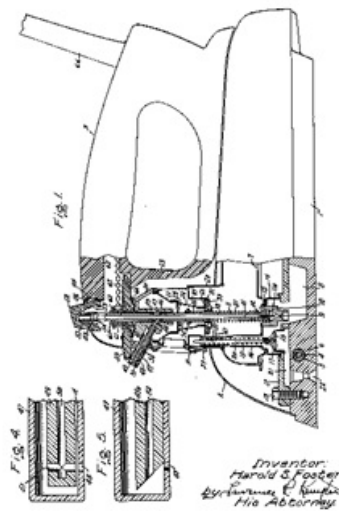
H. S. FOSTER

3,041,756

STEAM AND LIQUID SPRAY CHAMBER

Filed June 19, 1961

2 Sheets-Sheet 1



Inventor:
Harold S. Foster
By *[Signature]*
His Attorney

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

International class (IPC 8-9):

International class (IPC 1-7):

CPC:

European class:

US class:

Classification Explorer

Cited documents:

Forward Citations:

Hand-held shock-resistant electrolytically heated steam producing apparatus

US19830466216 19830214

Publication number

Publication date

Application number

Application date

US4496826 A

19850129

US19830466216

19830214

OSROW LEONARD

OSROW LEONARD

OSROW LEONARD

D06F75/14 (Advanced/Invention);
D06F75/08 (Core/Invention)

D06F75/16 F22B1/30 H05B1/02 H05B3/60

D06F75/14

D06F75/14

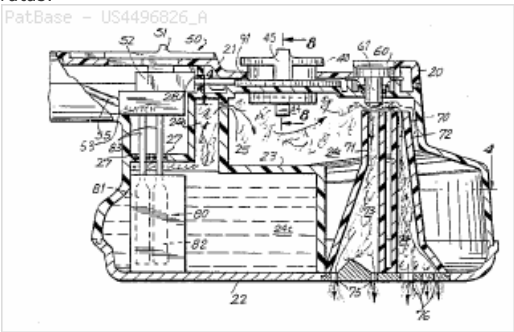
219/245 219/272 219/275 219/284 219/295 239/136 38/69 38/77.82 392/335 392/336 392/404 68/222 D32/17

Classification Explorer

ZA801790 A, US4366367 A, US4206340 A, US3997759 A, US3969607 A, US3755649 A, US3745306 A, US3617698 A, IT469253 A, GB484974 A, GB474204 A,

WO04085921, USD624265, USD595021, USD552317, USD541500, USD538991, USD511232, USD509936, USD473987, USD465309, US9845568, US7603800, US6072937, US5404662, US5279055, US2017016174, US2010024259, US2009064545, US2008083739, US2008034813, US2007000159, US2005274330, US10036117, EP0531262, EP0531262, CN105803748,

Abstract:
A hand-held electrolytically heated steam producing apparatus, e.g., steaming iron, includes a hollow housing having an interior subdivided by a partition wall into a pair of compartments communicated by a passage. A first compartment accomodates a pair of spaced electrodes that are at different electrical potentials during steam-producing operations of the apparatus, while the second compartment is penetrated by a tubular stack extending from a steam outlet in the bottom wall of the housing to a given distance from the top wall of the housing but below the level of the passage. The top wall of the second compartment is also provided with a water inlet offset from the steam stack and equipped with a removable closure. To prevent the formation of an electrically conductive path through the water between the electrodes and the user in all positions of the apparatus, the partition wall is L-shaped in vertical cross section to define a recess below the passage open to the first compartment and sized to retentively receive substantially all of the water contents of the first compartment when the housing is in an up-ended position with the first compartment above the second compartment, thereby preventing water from flowing between the compartment and forming an electrically conductive path. The apparatus includes a switch for controlling the energization of the electrodes and an interlock arrangement between the inlet closure and switch prevents removal of the closure if the electrodes are energized and the energization of the electrodes if the closure is removed to fill the apparatus.



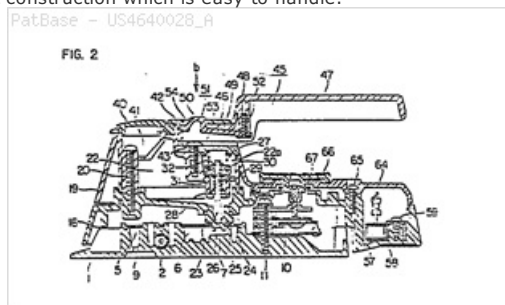
Title: COMBINATION STEAM IRON AND STEAMER
Priority: JP19840113333 19840601 CA19850482830 19850530
Family:

Publication number	Publication date	Application number	Application date
CA1252710 A1	19890418	CA19850482830	19850530
EP0164975 A2	19851218	EP19850303877	19850531
EP0164975 A3	19870819	EP19850303877	19850531
EP0164975 B1	19910116	EP19850303877	19850531
JP1820210 C3	19940127	JP19840113333	19840601
JP5029472 B4	19930430	JP19840113333	19840601
JP60256498 A2	19851218	JP19840113333	19840601
US4640028 A	19870203	US19850738180	19850528

Probable Assignee: MATSUSHITA ELECTRIC IND CO LTD
Assignee(s):(std): MATSUSHITA ELECTRIC IND CO LTD
Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; NAKADA SEIICHI ; WATANABE MASAO ; HANADA TOOL ; MATSUSHITA DENKI SANGYO KK
Inventor(s):(std): HANADA TOOL ; HANADA TOORU ; NAKADA SEIICHI ; WATANABE MASAO
Agent(s): G RONALD BELL AND ASSOCIATES
Designated states: BE FR GB
International class (IPC 8-9): D06F75/10 D06F75/14 D06F75/18 D06F75/34 (Advanced/Invention); D06F75/00 D06F75/08 (Core/Invention)
International class (IPC 1-7): D06F75/10 D06F75/14 D06F75/18 D06F75/34
CPC: Y10T16/469 D06F75/34 D06F75/14 D06F75/18
European class: D06F75/14 D06F75/18 D06F75/34
US class: 16/114R 16/422 38/77.7 38/77.8 38/778 38/92 D32/72
[Classification Explorer](#)
Cited documents: US4484399 A, US4091551 A, US3672080 A, US3229392 A, US3111780 A, US3001305 A, US2853814 A, US2815592 A, US2813358 A, US2763075 A, US2637126 A, FR2449158 A3, FR1543733 A, DE278606 A, DE2538243 A1, DE2532526 A1,
Forward Citations: USD484654, US8955239, US8407920, US6986217, US5623775, US4857703, US4851642, US4843215, US4833298, US2016161108, US2016161107, US2009178308, US2005028408, US2004010950, EP3230517, EP0857813, EP0857813,

Abstract:

A portable travel electric steam iron which also functions as a steamer has an aperture provided in a rear portion of the bottom of a water tank which supplies water into steam generating chambers from the water tank. Water dripping through the aperture is received by a water receiving surface provided on the center or on the front side of the center of a base. A handle which includes two straight positions separated by a bend is securable to an iron main body both in the operative position and storage position. An actuator for opening and closing an aperture is disposed in a space above the water tank, in the vicinity of a fixing portion at which the handle is fixed to the iron main body, thus providing a compact construction which is easy to handle.



Title: Portable steamer
Priority: US19840635554 19840730
Family:

Publication number	Publication date	Application number	Application date
US4571483 A	19860218	US19840635554	19840730

Probable Assignee: TRAVELTEC INTERNATIONAL INC
Assignee(s):(std): TRAVELTEC INT INC ; TRAVELTEC INTERNATIONAL INC
Assignee(s): TRAVELTEC INT
Inventor(s):(std): FATHI SAUL S
International class
(IPC 8-9): D06F87/00 (Advanced/Invention);
D06F87/00 (Core/Invention)
CPC: D06F87/00
European class: D06F87/00
US class: 219/271 219/275 219/367 38/69 392/404

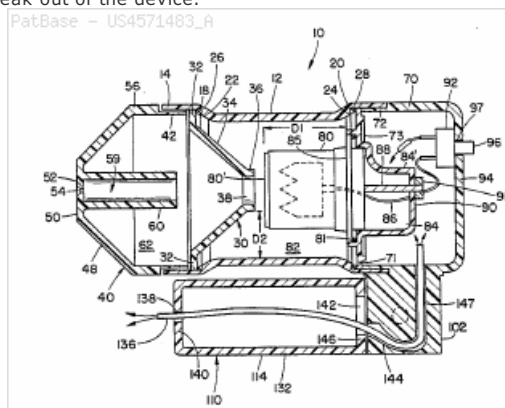
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Cited documents: US3811208 A, US3809503 A, US3755649 A, US3742629 A, US3695066 A, US3654780 A, US3620055 A, US3470719 A, US3395469 A, US2962576 A, US2763075 A, EP0104048 A2, CA885053 A,

Forward Citations: US9845568, US8776409, US8615908, US7121024, US6986217, US5094021, US2010086287, US2010024492, US2008034813, US2004010950, GB2462202, GB2345921, GB2345921,

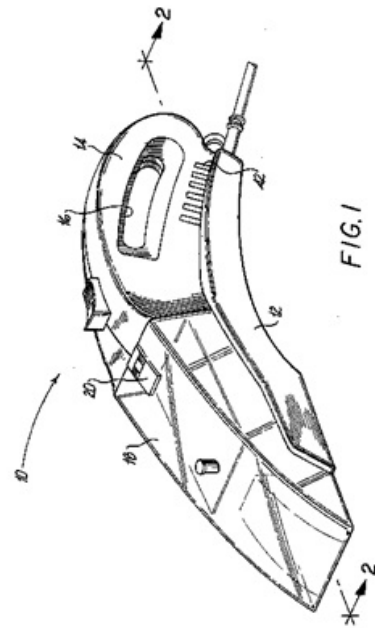
Abstract:

This portable steamer device has a central cylindrical casing open at opposite ends. A handle is rotatably mounted to a cylindrical cap attached to the rear end of the casing. A baffle is mounted to the front end of the casing, and has holes for emitting steam. In the casing is a heater assembly to heat water in a first chamber conically shaped body with a central aperture closes the chamber but permits water to pass into the chamber and steam to pass out of the chamber. A tube section inside a second chamber between the baffle and the body which passes steam to the baffle while any water which may inadvertently spill out of the first chamber is captured in the second chamber, thus, water cannot leak out of the device.



Title:	Portable steam vacuum cleaner																																												
Priority:	US19920942308 19920909		US19930101852 19930814		US19940323242 19941014																																								
	US19950526878 19950912																																												
Family:	<table><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr><tr><td>AT149811 E</td><td>19970315</td><td>AT19920309722T</td><td>19921023</td></tr><tr><td>DE69218198 D1</td><td>19970417</td><td>DE19926018198</td><td>19921023</td></tr><tr><td>DE69218198 T2</td><td>19970807</td><td>DE19926018198T</td><td>19921023</td></tr><tr><td>EP0586762 A1</td><td>19940316</td><td>EP19920309722</td><td>19921023</td></tr><tr><td>EP0586762 B1</td><td>19970312</td><td>EP19920309722</td><td>19921023</td></tr><tr><td>ES2100301 T3</td><td>19970616</td><td>ES19920309722T</td><td>19921023</td></tr><tr><td>SG49704 A1</td><td>19980615</td><td>SG19960004251</td><td>19921023</td></tr><tr><td>US5341541 A</td><td>19940830</td><td>US19920942308</td><td>19920909</td></tr><tr><td>US5819364 A</td><td>19981013</td><td>US19950526878</td><td>19950912</td></tr></table>					Publication number	Publication date	Application number	Application date	AT149811 E	19970315	AT19920309722T	19921023	DE69218198 D1	19970417	DE19926018198	19921023	DE69218198 T2	19970807	DE19926018198T	19921023	EP0586762 A1	19940316	EP19920309722	19921023	EP0586762 B1	19970312	EP19920309722	19921023	ES2100301 T3	19970616	ES19920309722T	19921023	SG49704 A1	19980615	SG19960004251	19921023	US5341541 A	19940830	US19920942308	19920909	US5819364 A	19981013	US19950526878	19950912
Publication number	Publication date	Application number	Application date																																										
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EP0586762 A1	19940316	EP19920309722	19921023																																										
EP0586762 B1	19970312	EP19920309722	19921023																																										
ES2100301 T3	19970616	ES19920309722T	19921023																																										
SG49704 A1	19980615	SG19960004251	19921023																																										
US5341541 A	19940830	US19920942308	19920909																																										
US5819364 A	19981013	US19950526878	19950912																																										
Probable Assignee:	PENTALPHA MACAU COMMERCIAL OFFSHORE LTD																																												
Assignee(s):(std):	PENTALPHA ENTERPRISES LTD ; SHAM JOHN C K ; WING SHING OVERSEAS LIMITED ; SHAM JOHN CHUN KUEN ; WING SHING OVERSEAS LTD																																												
Assignee(s):	SHAM JOHN CHUN KUEN HONGKONG HK ; WING SHING PRODUCTS CO ; WING SHING PRODUCTS (BVI) CO ; SHAM JOHN CK ; WING SHING PRODUCTS CO LTD ; WING SHING PRODUCTS (BVI) CO LTD ; PENTALPHA MACAU COMMERCIAL OFFSHORE LTD ; GT INVESTMENTS (BVI) LTD ; GT INVESTMENTS LTD ; PENTALPHA MACAU COMMERCIAL OFFSHORE LTD																																												
Inventor(s):(std):	SHAM JOHN CHUN KUEN ; SHAM JOHN C K																																												
Inventor(s):	SHAM JOHN CHUN KUEN HONGKONG HK																																												
Designated states:	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE																																												
International class (IPC 8-9):	A47L1/08 A47L5/24 A47L5/28 A47L7/00 A47L9/06 A47L9/32 (Advanced/Invention); A47L1/00 A47L5/22 A47L7/00 A47L9/06 (Core/Invention)																																												
International class (IPC 1-7):	A47L5/24 A47L5/26 A47L9/32																																												
CPC:	A47L1/08 A47L5/225 A47L5/24 A47L5/28 A47L7/0009 A47L7/0042 A47L9/06 A47L9/0613 A47L9/0626 A47L9/32																																												
European class:	A47L1/08 A47L5/22B A47L5/24 A47L5/28 A47L7/00B10 A47L7/00B2 A47L9/06 A47L9/06B2 A47L9/06B6 A47L9/32																																												
US class:	15/320 15/329 15/344 15/353 15/410 68/222																																												
Classification Explorer																																													
Cited documents:	USRE33074 E, US5507068 A, US5367740 A, US5311638 A, US5309600 A, US5224237 A, US5099545 A, US5092015 A, US5065473 A, US5020187 A, US5005252 A, US4993106 A, US4967443 A, US4955104 A, US4930178 A, US4924548 A, US4920608 A, US4899418 A, US4896396 A, US4894882 A, US4845802 A, US4821366 A, US4798613 A, US4788738 A, US4776058 A, US4766638 A, US4686735 A, US4683607 A, US4675936 A, US4670701 A, US4665582 A, US4635318 A, US4583260 A, US4573237 A, US4573234 A, US4545089 A, US4542557 A, US4536914 A, US4467493 A, US4454627 A, US4380845 A, US4334336 A, US4327459 A, US4209875 A, US4083077 A, US4074387 A, US4011624 A, US3675449 A, US2598499 A, US2303409 A, US2270579 A, US2230077 A, US1951316 A, US1728021 A, EP0269369 A2, EP0200807 A1,																																												
Forward Citations:	WO9424920, WO15179157, WO15018545, WO15007323, WO14001502, WO09148911, WO09086891, WO07088192, WO03009736, USD693068, USD661035, USD657517, USD646861, USD626708, USD506297, USD504985, USD475164, USD465623, USD463081, USD458424, USD441926, USD441508, USD421670, US9845568, US9743819, US9585536, US9554686, US9447538, US9179815, US9155440, US8943647, US8806786, US8671510, US8607411, US8607406, US8534301, US8453296, US8448293, US8424154, US8402601, US8302251, US8225456, US8151411, US8069529, US8056181, US7958597, US7921507, US7882593, US7862623, US7774895, US7478455, US7464440, US7225503, US7216403, US7203986, US7188388, US7159271, US7155117, US7153371, US7121024, US7059011, US6979373, US6968593, US6934995, US6898820, US6895632, US6839934, US6839933, US6640383, US6571421, US6564423, US6502275, US6347428, US6325864, US6314972, US6280532, US6145159, US6131237, US6125498, US6094775, US6031969, US5970572, US5867864, US5839154, US5634238, US5625920, US5600866, US5555597, US5502872, US5432976, US2013219758, US2012159806, US2011253803, US2011000037, US2010242209, US2010126533, US2010115726, US2010083459, US2010037424, US2010017997, US2009241293, US2009165239, US2009162858, US2009106929, US2008092926, US2008022480, US2007271724, US2007130720, US2007124891, US2006056824, US2006042047, US2006042046, US2005050671, US2005050670, US2004261204, US2004216263, US2004200007, US2003233728, US2003233727, US2003233726, US2003202785, US2003172489, US2003075203, US2001039684, RU2622786, GB2446771, GB2377880, FR2762531, EP3245925, EP2941998, EP2392244, EP2065639, EP1815777, EP1332707, EP1332707, EP1279362, EP0988822, EP0875194, EP0847721, EP0672377, DE19651477, DE19651477, CN105595909, CN105392400, CN105392400, AU750654, AU676045, AU2002325903, AU2002306197, AU2002306197,																																												

Abstract:
A portable hand-held steam vacuum cleaner is provided which includes a housing having a handle portion and a nozzle portion. A reservoir is defined in the housing for retaining cleaning solution or water, and a heating unit is associated with the reservoir for heating the liquid so as to generate steam for delivery to a surface to be cleaned. A motor driven fan assembly is disposed within the housing in communication with the nozzle portion for drawing excess liquid and debris into the nozzle portion. The nozzle portion defines structure for separating and containing the liquid which is drawn into the vacuum cleaner.



Title: Omnidirectional portable appliance for steam cleaning hard or flexible surfaces

Priority: FR19970005226 19970428

Family:	Publication number	Publication date	Application number	Application date
	DE69812212 D1	20030424	DE19986012212	19980428
	DE69812212 T2	20031211	DE19986012212T	19980428
	EP0875194 A1	19981104	EP19980401033	19980428
	EP0875194 B1	20030319	EP19980401033	19980428
	ES2196509 T3	20031216	ES19980401033T	19980428
	FR2762531 A1	19981030	FR19970005226	19970428
	FR2762531 B1	19990813	FR19970005226	19970428
	US6031969 A	20000229	US19980050691	19980330

Probable Assignee: SUPERBA A OF FRANCE CORP

Assignee(s):(std): DOMENA ; DOMENA ALTKIRCH ; SUPERBA SA

Assignee(s): SUPERBA A CORP ; SUPERBA S A ; SUPERBA A OF FRANCE CORP ; SUPERBA

Inventor(s):(std): BURR JEAN MARC ; SCHMITZ NICOLAS

Designated states: DE ES GB IT NL

International class
(IPC 8-9): A47L1/08 A47L11/34 F22B1/28 (Advanced/Invention)

International class
(IPC 1-7): A47L1/08 A47L11/34 A47L11/38 B08B3/00 F22B1/28 H05B3/50

CPC: A47L1/08 A47L11/34 A47L11/4086 F22B1/284

European class: A47L1/08 A47L11/34 A47L11/40N4 F22B1/28D

US class: 15/320 261/104 392/395 392/404 68/222

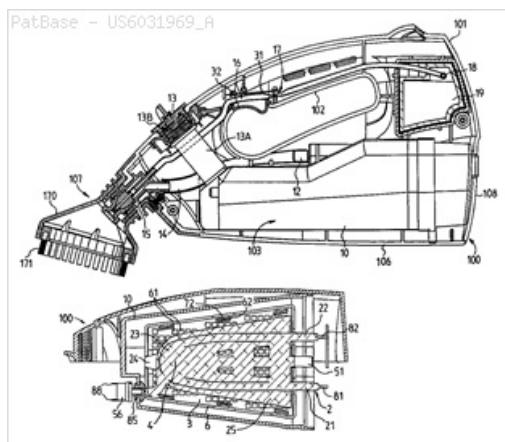
[Classification Explorer](#)

Cited documents: WO9624233 A1, US5367740 A, US2849736 A, US2588000 A, FR7319595, FR7306610, FR2742682 A1, FR2230322 A1, FR2218867 A2, EP0780083 A1, EP0672377 A1, EP0586762 A1, EP0111445 A1, DE303300, DE2658878 A1, AT303300 B,

Forward Citations: WO15001292, WO14159513, WO08012661, WO05018837, WO04078370, USD712609, USD712608, USD646861, USD626708, USD519694, USD506297, USD504985, USD475164, USD465886, USD445972, USD443960, US9845568, US9822480, US8707743, US8631538, US8534301, US8387291, US8151496, US8069529, US7937792, US7935668, US7818864, US7801424, US7707674, US7478455, US7414337, US7363673, US7304278, US7225503, US6986217, US6934995, US6895632, US6886373, US6839933, US6502275, US6347428, US6289551, US6275653, US6157775, US2016022110, US2013111697, US2011146720, US2011146116, US2010146826, US2010115726, US2009313767, US2009260406, US2008222871, US2008155769, US2008092311, US2007223894, US2007209139, US2006202571, US2006088301, US2006018638, US2005132761, US2004255410, US2004200007, US2004050118, US2004010950, US2003233728, US2003233727, US2003233726, KR100748713, EP3141174, DE202014010679, DE202014010673, DE202014010671, DE10351878, CN105916425, CN105581745, CN105581745, CN105581744, CN105581744, CN105581743, CN105581743, CN105358030, AU2005261482,

Abstract:

The omnidirectional portable appliance for steam cleaning surfaces both hard and flexible, comprises a case provided with a handle, a water feed orifice, an electricity power cord, a cleaning head, a steam generator included in the case and a venturi device [means for selectively] delivering steam to the cleaning head. The instantaneous steam generator having low thermal inertia operates at atmospheric pressure and comprises a capillary body for storing in divided form all of the supply of water to be evaporated, [in divided form] the capillary body being compressed around [the electrical heater means which comprise] a [metal-clad] resistance element and a heater body constituted by a [having a] material that is a good conductor of heat, is overmolded on the resistance element and [thereon to form a heater body which] is associated with at least one heat transmission element connected to [the] a hottest portion of the heater body and provided with a temperature sensor enabling the control of power fed to the [metal-clad] resistance element to be optimized so as to be safe regardless of the orientation in three dimensions of the steam generator.



Title:

Appliance for treating garment with steamer and iron

Priority:

US19980173503 19981016

Family:

Publication number	Publication date	Application number	Application date
US6061935 A	20000516	US19980173503	19981016

Probable Assignee:

CHIAPHUA IND LTD

Assignee(s):(std):

CHIAPHUA IND LTD

Assignee(s):

CHIAPHUA INDUSTRIES LIMITED ; CHIAPHUA IND

Inventor(s):(std):

LEE CHIU YEUNG

International class (IPC 8-9):

D06F75/12 D06F75/30 (Advanced/Invention);
D06F75/00 D06F75/08 (Core/Invention)

International class (IPC 1-7):

D06C7/00 D06F75/12 D06F75/40

CPC:

D06F75/12 D06F75/30

European class:

D06F75/12 D06F75/30

US class:

38/77.6 38/776 68/222

[Classification Explorer](#)

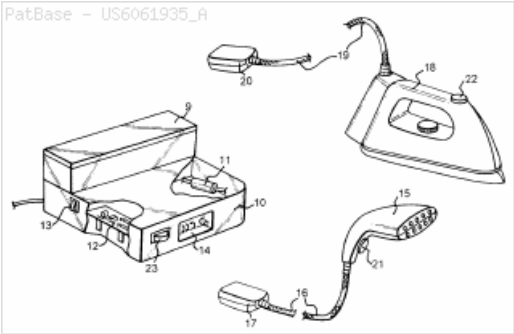
Cited documents:

US5842295 A, US5609047 A, US5428910 A, US4875301 A, US4565019 A, US3869815 A, US3581529 A, US3272964 A, US2661552 A, US2247438 A,

Forward Citations:

WO14030087, WO08021273, WO07111691, WO07111691, WO07012720, USD464180, US9845568, US9822480, US9243363, US9194077, US8615908, US8607483, US8407920, US8365446, US8272152, US7908776, US7516565, US7490422, US7475504, US7051462, US6886373, US6865773, US6711840, US6678973, US2015176196, US2012060396, US2012036744, US2011209364, US2010086287, US2010058623, US2010000130, US2009178308, US2008209774, US2008040953, US2006191299, US2005132761, US2005028408, US2004065754, US2004050118, US2003208872, US2002069563, JP2014042723, FR2889211, EP1207339, CN104652110,

Abstract:
A dual appliance for steam treating garments having a central reservoir and an electrical water pump to supply water to a steamer or a steam iron. Separate braided flexible cables supply water and power to the steamer and to the steam iron, to which the respective cables are respectively permanently connected. Plugs are provided at the ends of the cables for connection to a socket.



Title: HAND HELD DOMESTIC STEAM CLEANING APPLIANCE
Priority: XH19980004367 19981229 XH19980004367F 19981229 US19990107053F 19990629

Publication number	Publication date	Application number	Application date
USD436424 S1	20010116	US19990107053F	19990629

Probable Assignee: BUZZI SRL
Assignee(s):(std): BUZZI SRL
Assignee(s): BUZZI SRL AUTOPORTO PESCARITO VIA TOSCANA ; BUZZI S R L
Inventor(s):(std): BUZZI BRUNO
Inventor(s): BRUNO BUZZI
US class: D32/17

[Classification Explorer](#)

Forward Citations: USD776887, USD670876, USD659921, USD648908, USD648495, USD648494, USD620651, USD620208, USD611208, USD598614, USD595461, USD592366, USD589663, USD587866, USD542488, USD525399, USD519694, USD516759, USD488269, USD482505, USD465886, USD445972, US9845568, US8893410, US2011219646,

Abstract:

(Claims)The ornamental design for: hand held domestic steam cleaning appliance, as shown and described.



Title: STEAMER ARRANGEMENT
Priority: SG20010002515 20010404 SG20010025154 20010404 WO2002IB00942 20020321
Family:

Publication number	Publication date	Application number	Application date
AT284990 E	20050115	AT20020714383T	20020321
CN1250802 C	20060412	CN20028001056	20020321
CN1460142 A	20031203	CN20028001056	20020321
DE60202274 D1	20050120	DE20026002274	20020321
DE60202274 T2	20051208	DE20026002274T	20020321
EP1377707 A1	20040107	EP20020714383	20020321
EP1377707 B1	20041215	EP20020714383	20020321
ES2233802 T3	20050616	ES20020714383T	20020321
JP2004519308 T2	20040702	JP20020579562T	20020321
JP4063675 B2	20080319	JP20020579562T	20020321
SG92796 A1	20021119	SG20010002515	20010404
US2002157288 AA	20021031	US20020113048	20020401
US6622404 BB	20030923	US20020113048	20020401
WO02081810 A1	20021017	WO2002IB00942	20020321

Probable Assignee: PHILIPS ELECTRONICS KONINKLL NV
Assignee(s):(std): KONINKL PHILIPS ELECTRONICS NV ; KONINKLIJKE PHILIPS ELECTRONICS N V ; VALIYAMBATH MOHANKUMAR KRISHNA
Assignee(s): VALIYAMBATH MOHANKUMAR KRISHNAN ; PHILIPS ELECTRONICS KONINKLL NV ; PHILIPS KONINKLL NV ; KONINKLIJKE PHILIPS ELECTRONICS N V EINDHOVEN
Inventor(s):(std): M VALIYAMBATHKRISHNAN ; MOHANKUMAR VALIYAMBATH KRISHNA ; MOHANKUMAR VALIYAMBATH KRISHNAN ; VALIYAMBATH KRISHNAN MOHANKUMA ; VALIYAMBATH MOHANKUMAR ; VALIYAMBATH MOHANKUMAR KRISHNA ; VALIYAMBATHKRISHNAN M
Inventor(s): VALIYAMBATH MOHANKUMAR KRISHNAN ; VALIYAMBATH KRISHNAN MOHANKUMAR
Designated states: AT BE CH CN CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE TR
International class (IPC 8-9): D06F75/02 D06F75/10 D06F75/40 D06F79/02 D06F87/00 (Advanced/Invention); D06F75/00 D06F75/08 D06F79/00 D06F87/00 (Core/Invention)
International class (IPC 1-7): D06F75/02 D06F75/10 D06F75/12 D06F75/14 D06F75/40 D06F79/02 D06F87/00
CPC: D06F75/02 D06F79/02 D06F87/00
European class: D06F75/02 D06F79/02 D06F87/00
US class: 38/77.8 38/77.9 38/778 38/779 38/85 38/96 38/960

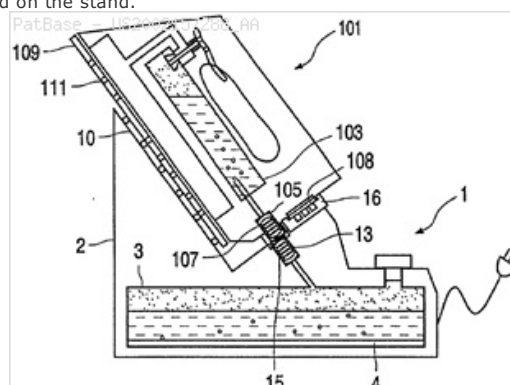
[Classification Explorer](#)

Cited documents: US5802749 A, US5802749, US5609047 A, US5428910 A, US5315773 A, US5290998 A, US5074066 A, US2851050 A, US2568104 A, US1660396 A, JP8182899, JP61279300, JP6081499 U, JP6023200, JP5096098, JP2000084299, JP11147000,

Forward Citations: WO13167700, WO13167692, WO10089565, US9845568, US9765475, US9410283, US9273426, US9243363, US8726544, US8615908, US8448359, US8407920, US8051589, US7607246, US7114274, US7065907, US7000342, US6986217, US2016122937, US2015176196, US2011265354, US2010086287, US2010024259, US2010024257, US2009313767, US2009178308, US2008229628, US2006005437, US2005160635, US2005016034, US2004010950, ITGE20120115, ITGE20120050, ITGE20120049, EP2458080, CN105734945, CN104583485, CN102383298, AU2013257986, AU2013257978, AU2010212204,

Abstract:

A steamer arrangement comprising a cordless steaming device (101) and a stand (1) for holding the steaming device, said steaming device having a water tank (103), said stand having an electrically heated boiler (3), said steaming device and said stand being provided with mechanical coupling means (13, 105) including valves (15, 107) for coupling the water tank (103) of the steaming device to the boiler (3) of the stand for obtaining a fluid communication between the boiler and the water tank when the steaming device is attached to the stand. When the steaming device is attached to the stand, steam flows from the boiler to the water tank, resulting in high-pressure/temperature steam in the water tank. Detached from the stand the cordless steaming device can be used directly for steaming. The cordless steaming device may be a cordless iron with the soleplate heated electrically, while simultaneously steam is charged when the iron is placed on the stand.



Title: HAND HELD GARMENT STEAMER
Priority: US20020347178P 20020109 CA20032416078 20030109 US20030339178 20030109
US20050195883 20050803 US20050197903 20050805

Family:	Publication number	Publication date	Application number	Application date
	CA2416078 AA	20030709	CA20032416078	20030109
	US2004010950 AA	20040122	US20030339178	20030109
	US2006018638 AA	20060126	US20050195883	20050803
	US2006056824 AA	20060316	US20050197903	20050805
	US6986217 BB	20060117	US20030339178	20030109
	US7155117 BB	20061226	US20050197903	20050805

Probable Assignee: CONAIR CORP
Assignee(s):(std): CONAIR ; CONAIR CIP INC ; LEUNG ANTHONY K L ; TSE CHUNG S
Assignee(s): TSE CHUNG SHUN ; LEUNG ANTHONY KIT LUNG ; CONAIR CORP
Inventor(s):(std): LEUNG ANTHONY KIT LUN ; TSE CHUNG SHUN ; LEUNG ANTHONY KIT LUNG ; TSE CHUNG S ; LEUNG ANTHONY K L
Inventor(s): LEUNG ANTHONY ; TSE CHUNG ; LEUNG ANTHONY KL
Agent(s): SIM AND MCBURNEY; STEVEN A GARNER ESQ CONAIR CORP; LAWRENCE; STEVEN A
International class (IPC 8-9): A61H33/12 D06C7/00 D06F73/00 D06F75/00 D06F75/38 F17C7/04 (Advanced/Invention); A61H33/06 (Core/Invention)
International class (IPC 1-7): D06F61/00 D06F63/00 D06F65/00 D06F69/00 D06F71/00 D06F73/00 D06F87/00
CPC: D06F73/00 B08B3/00 B08B2230/01 F22B1/285
European class: A47L25/08 B08B3/00 D06F73/00 F22B1/28D2 L08B230/01
US class: 219/245 38/3 38/3P 38/77.83 38/778.3 392/403 392/403P 392/404 392/405 68/222

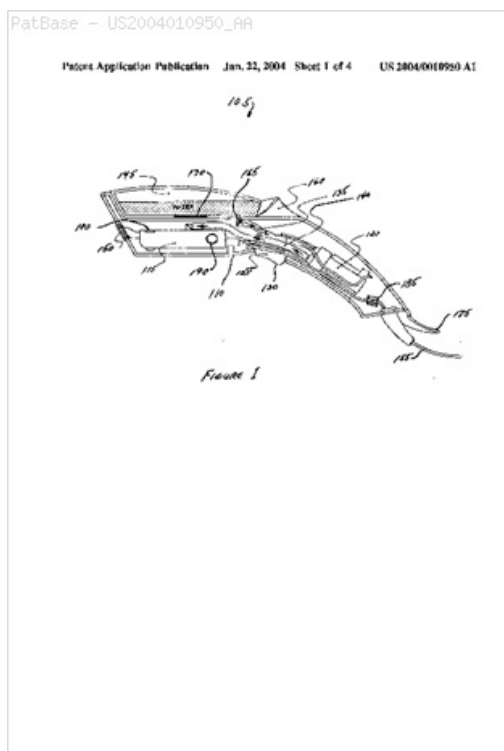
[Classification Explorer](#)

Cited documents: US6986217 BB, US6986217 BA, US6622404 BB, US6513269 BB, US6295691 BA, US6031969 A, US5341541 A, US5220803 A, US5205135 A, US5121464 A, US4866298 A, US4857703 A, US4855568 A, US4851642 A, US4843215 A, US4835364 A, US4833298 A, US4640028 A, US4571483 A, US4206340 A, US3969607 A, US3963607 A, US3811208 A, US3805425 A, US3742629 A, US3690024 A, US3675449 A, US3646317 A, US3620055 A, US3584471 A, US2849736 A, JP2136200 A2, JP1317499 A2, GB2159397 A1,

Forward Citations: WO16090538, WO15180980, WO15103600, WO15028359, WO14102671, WO13014560, WO10008799, WO09047820, USD808391, USD716007, USD712608, USD707902, USD700413, USD671121, USD670454, USD663909, USD662269, USD652187, USD651774, USD647259, USD624265, USD624254, USD622457, USD613912, USD601807, USD601806, USD601348, USD595964, USD595510, USD595021, USD592365, USD589663, USD547067, US9920752, US9915024, US9845568, US9822480, US9771679, US9410283, US8893410, US8863414, US8800163, US8776409, US8707743, US8555533, US8407920, US8272152, US8245630, US8151496, US8136263, US7661212, US7516565, US7155117, US2017241069, US2017065998, US2016290325, US2016194816, US2012039586, US2011219646, US2011173848, US2010146826, US2010086287, US2010058623, US2010024492, US2009313767, US2009277973, US2009260406, US2009223383, US2009178308, US2008172809, US2008168688, US2008092932, US2008034813, US2008022480, US2006056824, US2006018638, RU2662209, KR101026113, CN106414836, CN106232893, CN105980623, CN105544168, CN105473781,

Abstract:

A hand held appliance for use in applying steam to a garment or other item made of fabric includes a pump, a boiler and a switch. Power is applied through the switch to the pump. The pump pumps water from the water tank to the boiler. The water is converted to steam in the boiler and is expelled from the appliance through a set of nozzles. The appliance may include optional attachments for performing other operations on garments or fabric, for example, applying pressure, brushing, scrubbing or lint removal.

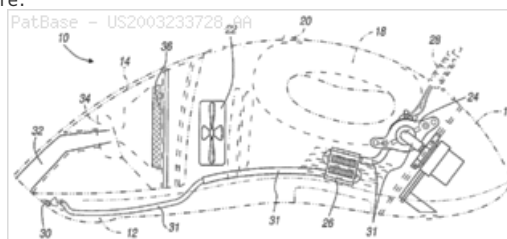


Title: FLUID SUPPLY TANK FOR HAND HELD VACUUM**Priority:** US20020175519 20020619

Family:	Publication number	Publication date	Application number	Application date
	US2003233728 AA	20031225	US20020175519	20020619
	US6839933 BB	20050111	US20020175519	20020619

Probable Assignee: BLACK AND DECKER INC**Assignee(s):(std):** BLACK AND DECKER INC**Assignee(s):** MURRAY CHRISTOPHER J ; WHEELER DAVID K**Inventor(s):(std):** MURRAY CHRISTOPHER J ; WHEELER DAVID K**Agent(s):** HARNESS DICKEY AND PIERCE PLC**International class (IPC 8-9):** A47L11/34 A47L5/24 F16K15/18 (Advanced/Invention);
A47L11/00 A47L5/22 F16K15/00 (Core/Invention)**International class (IPC 1-7):** A47L11/30 A47L5/24**CPC:** A47L5/24 A47L11/34 A47L11/4083 F16K15/18**European class:** A47L11/34 A47L11/40N2 A47L5/24 F16K15/18**US class:** 15/32 15/320 15/320S 15/344 15/344P 392/404[Classification Explorer](#)**Cited documents:** USRE33074 E, USRE27792 E, USD445974 S1, USD441508 S1, USD430365 S1, USD425270 S1, USD357772 S1, USD352807 S1, USD333891 S1, USD313831 S1, USD289576 S1, USD231658 S1, US6571421 BA, US6314972 BA, US6289551 BA, US6212332 BA, US6189178 BA, US6148144 A, US6125498 A, US6100502 A, US6031969 A, US5970572 A, US5958113 A, US5896617 A, US5865104 A, US5839159 A, US5819364 A, US5794303 A, US5784755 A, US5784753 A, US5692315 A, US5680810 A, US5507068 A, US5500977 A, US5473792 A, US5383251 A, US5367740 A, US5341541 A, US5289610 A, US5065473 A, US5020187 A, US4928347 A, US4920608 A, US4896396 A, US4831685 A, US4821366 A, US4788769 A, US4656763 A, US4583260 A, US4536914 A, US4397057 A, US4327459 A, US4046989 A, US39684 A, US3949499 A, US3940826 A, US3869749 A, US3675449 A, US3604037 A, US3245160 A, US3040362 A, US2617138 A, US2020120 A, US2003106180 AA, US2001039684 AA, JP2191498 A2,**Forward Citations:** WO08065313, WO08065313, US9845568, US8740591, US8407850, US8192182, US7967509, US7784137, US7578931, US7059011, US2016150938, US2010050368, US2009238702, US2009172912, US2008310774, US2007283671, US2007130718, US2005050670, US2003172489, FR2909275, CN103284654,**Abstract:**

A hand held vacuum using fluid, such as steam, to enhance cleaning is provided. The hand held vacuum includes a main body housing having a vacuum inlet and at least one fluid discharge aperture. The vacuum inlet cooperates with a vacuum fan and the fluid discharge aperture cooperates with a pump mechanism. A fluid supply tank is adapted to be removably connected to the main body housing and has a fill opening. A closure is removably attached to the fluid supply tank and is adapted to seal the fill opening and provide a discharge flow path. A flow path extension provides fluid communication between a low point in the fluid supply tank and the discharge flow path of the closure. The flow path extension may be rigid. The discharge flow path of the closure may extend between a radial inlet and an axial outlet of the closure.



Title: PROJECTION TYPE IMAGE DISPLAY SYSTEM CAPABLE OF COLOR SCROLLING

Priority: US20030457914P 20030328 KR20030049732 20030721 US20040811375 20040329

Family:

	Publication number	Publication date	Application number	Application date
	■ KR20040086077 A	20041008	KR20030049732	20030721
	■ NL1025827 A1	20040930	NL20041025827	20040326
	■ NL1025827 C2	20060314	NL20041025827	20040326
	■ US2004196644 AA	20041007	US20040811375	20040329
	■ US7327409 BB	20080205	US20040811375	20040329

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s):(std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s):(std): SUNG HA KIM ; LEE HUI JUNG ; LEE HEE JOONG ; KUN HO CHO ; KIM SUNG HA ; KIM SEONG HA ; KIM DAE SIK ; HEE JOONG LEE ; DAE SIK KIM ; CHO KUN HO ; CHO GEON HO

Agent(s): SUGHRUE MION PLLC

International class (IPC 8-9): F21V9/14 G02F1/1335 G03B21/00 H04N9/31 (Advanced/Invention); G03B21/00 (Advanced/Non-invention); G03B21/00 H04N9/31 (Core/Invention)

International class (IPC 1-7): F21V9/14 G03B21/00 H04N9/31

CPC: H04N9/3117

European class: H04N9/31A3T H04N9/31V

US class: 348/E09.027 348/E9.027 348/E90.27S 349/5 362/19 362/19P

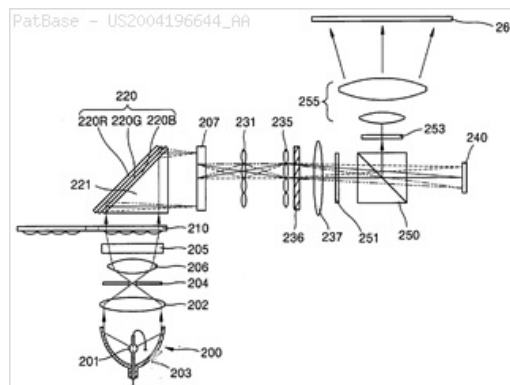
[Classification Explorer](#)

Cited documents: US6839095 BB, US6619802 BB, US6493149 BB, US6288815 BA, US2002191154 AA, US2002180933 AA, US2002135862 AA, US2001038483 AA, KR1999002347 A, KR19990002347 A, JP11281930 A2, EP1253787 A2,

Forward Citations: US9845568, US7837357, US7413317, US7287858, US7131734, US7131734, US7113343, US7113343, US2008002253, US2007047059, US2005270617, US2005249098, US2005012902, US2004239881, US2004233342, KR100619006,

Abstract:

An image display system includes an illumination system, a light valve, a polarization beam splitter, and at least one polarizing element. The illumination system includes a light source, a color separator, and a scrolling unit. The light valve processes color beams which are scrolled, according to an input image signal and form a color image. The polarization beam splitter transmits or reflects an incident light beam according to polarization so light from the illumination system advances toward the light valve and light from the light valve advances toward a projection lens unit. A polarizing element may be installed at a path of light traveling toward the polarization beam splitter or a path of light that is reflected by the light valve and travels toward the projection lens unit.

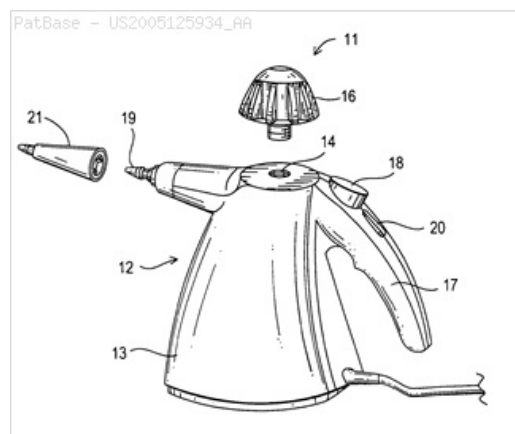


Title: STEAM STOP FOR STEAM CLEANER**Priority:** US20030734097 20031211 WO2004US41047 20041209

Family:	Publication number	Publication date	Application number	Application date
	■ CN1902427 A	20070124	CN200480040327	20041209
	■ CN1902427 B	20110216	CN200480040327	20041209
	■ EP1697676 A1	20060906	EP20040813372	20041209
	■ HK1097589 A1	20070629	HK20070102803	20070315
	■ HK1097589 A3	20070629	HK20070102803	20070315
	■ US2005125934 AA	20050616	US20030734097	20031211
	■ US7269878 BB	20070918	US20030734097	20031211
	■ WO05061943 A1	20050707	WO2004US41047	20041209

Probable Assignee: SHARKNINJA OPERATING LLC**Assignee(s):(std):** EURO PRO OPERATIN LLC ; REESE CHAD A ; EURO PRO OPERATING LLC**Assignee(s):** SHARKNINJA OPERATING LLC ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA ; BANK OF AMERICA NA AGENT AS ; MORGAN STANLEY AND CO INC**Inventor(s):(std):** REESE CHAD A**Inventor(s):** REESE CHAD ; CHAD A REESE**Agent(s):** LUNG TIN INT PATENT AND TRADEMARK AGENT LTD; REED SMITH LLP, ATTN: PATENT RECORDS DEPARTMENT; REED SMITH LLP ATTN PATENT RECORDS DEPARTMENT; GREENBERG TRAURIG LLP; MICHAEL I; SYLVIA**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**International class (IPC 8-9):** A47L5/14 A47L9/02 B08B1/32 B08B3/00 F16L F16L37/40 (Advanced/Invention); A47L5/12 A47L9/02 B08B3/00 F16L37/28 (Core/Invention)**International class (IPC 1-7):** A47L5/24 F16L37/40 F17C7/04**CPC:** B08B3/00 B08B2230/01 F16L37/40**European class:** B08B3/00 F16L37/40 L08B230/01**US class:** 15/320 15/320P 15/344 15/344S 239/587.1 239/587.4 392/404 392/404S[Classification Explorer](#)**Cited documents:** US6640383 BB, US6536534 BA, US2949243 A, US2615215 A, US2487434 A, US2337077 A, US2003208872 AA, US2003056316 AA, US2002144374 AA, US1809127 A, US1343819 A, GB2261043 A1, FR2828119 A3, EP1297905 A2,**Forward Citations:** WO14032712, WO07047792, USD707900, USD704799, USD702406, USD674564, USD656693, USD620651, USD620208, USD611208, USD598614, USD592366, USD525399, USD519694, US9845568, US8935827, US8919357, US8881335, US2011073140, US2011073135, US2010269287, US2010212098, US2007050938,**Abstract:**

A steam stop safety mechanism for a portable steam cleaner prevents discharge of steam at the cleaner nozzle when attaching and disconnecting attachments, even if the cleaner trigger is in a locked open position. The mechanism includes a steel pin that is displaced in an extended position against a shoulder in the nozzle to prevent pressurized steam from escaping the nozzle. Attachment couplings include a pin retractor plate with a central hub that pushes the pin away from the shoulder to allow the steam to flow through openings in the retractor plate and out a concentrator or attachment hose that has a trigger to release steam as desired.



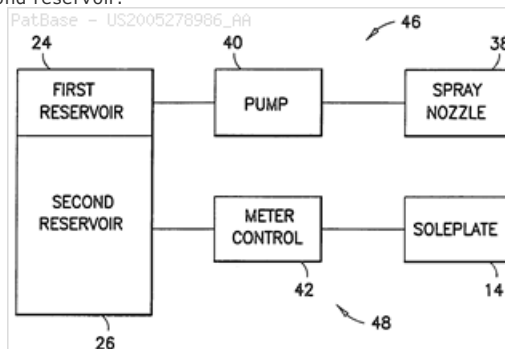
Title: STEAM IRON
Priority: US20040580409P 20040617 US20050126858 20050510 CA20052509851 20050613
Family:

Publication number	Publication date	Application number	Application date
AR049513 AA	20060809	AR2005P102428	20050614
CA2509851 AA	20051217	CA20052509851	20050613
CL2005001483 A1	20060804	CL20050001483	20050616
CO5710203 A1	20061229	CO20050058821	20050616
ECSP055861 A	20051122	EC2005SP05861	20050617
MXPA05006593 A1	20051221	MX2005PA06593	20050617
PA8637401 A1	20060324	PA20050086374	20050617
PE04422006 A1	20060628	PE20050000692	20050616
US2005278986 AA	20051222	US20050126858	20050510
US7191554 BB	20070320	US20050126858	20050510

Probable Assignee: APPLICA CONSUMER PRODUCTS INC
Assignee(s):(std): HP INTELLECTUAL CORP ; APPLICA CONSUMER PRODUCTS INC ; HP INTELLECTUAL PROPERTY CORP
Assignee(s): BANK OF AMERICA NA AS AGENT ; BANK OF AMERICA NA AGENT AS ; BANK OF AMERICA NA ; APPLICA INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; ALMANZAR SERGIO A ; DUQUE MARIA C ; FRETWELL MICHAEL R ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; SALTON INC ; SONEX INT ; SONEX INT CORP ; KWISET CORP ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC
Inventor(s):(std): ALMAZAR SERGIO A ; ALMAZAR SERGIO A ; DUQUE M C ; DUQUE MARIA C ; FRETWELL M R ; FRETWELL MICHAEL R ; ALMANZAR S A ; ALMANZAR SERGIO
Inventor(s): ALMANZAR SA ; FRETWELL MR ; MARIA C DUQUE ; MICHAEL R FRETWELL ; SERGIO A ALMAZAR ; SERGIO ALMANZAR ; DUQUE MC
Agent(s): SIM AND MCBURNEY; HARNECKER; ERNESTO CAVELIER; HARRINGTON AND SMITH LLP; BAKER BOTTS LLP
International class (IPC 8-9): D06F75/00 D06F75/06 D06F75/08 D06F75/10 D06F75/14 D06F75/18 D06F75/22 D06F75/38 (Advanced/Invention); D06F75/06 (Advanced/Non-invention); D06F75/00 D06F75/08 (Core/Invention)
International class (IPC 1-7): D06F75/00 D06F75/06 D06F75/08 D06F75/10 D06F75/14 D06F75/22
CPC: D06F75/14 D06F75/22
European class: D06F75/14 D06F75/22
US class: 38/77.1 38/77.5 38/775
[Classification Explorer](#)
Cited documents: USD470288 S1, US6681506 BB, US6671985 BB, US6631572 BA, US6625910 BB, US6427366 BB, US6425197 BB, US6351901 BA, US6314668 BA, US6163990 A, US6128839 A, US5638622 A, US5526595 A, US5507108 A, US5444216 A, US5398434 A, US4688340 A, US3670433 A, US3534488 A, US3300884 A, US2883778 A, US2832160 A, US2817169 A, US2001042326 AA,
Forward Citations: WO09080525, USD743662, US9845568, US9328454, US8156667, US7607246, US7546701, US7469492, US2009084007, US2009000160, US2008229628, US2008209774, US2006254097, US2006213092, GB2485553, GB2485553, GB2455647,

Abstract:

An electric iron including a housing; a soleplate connected to the housing; a heater for heating the soleplate; a fluid holding system connected to the housing, the fluid holding system including a first fluid reservoir; and a second water only reservoir connected to the soleplate; and a fluid dispensing system for dispensing fluid from the first reservoir and for dispensing water from the second reservoir. The fluid dispensing system includes a spray nozzle connected to the housing and a pump connecting the first reservoir to the spray nozzle. The fluid dispensing system is adapted to dispense fluid from the first reservoir only through the spray nozzle and only without addition of water from the second reservoir.



Title: GARMENT CARE SYSTEM**Priority:** EP20050109027 20050929 EP20060821090 20060915 WO2006IB53313 20060915
US20080088837 20080331 US20110028425 20110216

Family:	Publication number	Publication date	Application number	Application date
	AT474079 E	20100715	AT20060821090T	20060915
	BRPI0616768 A2	20120417	BR2006PI16768	20060915
	CN101273164 A	20080924	CN200680035409	20060915
	CN101273164 B	20111026	CN200680035409	20060915
	DE202006001242 U1	20060420	DE200620001242U	20060126
	DE602006015520 D1	20100826	DE200660015520T	20060915
	EP1960587 A2	20080827	EP20060821090	20060915
	EP1960587 B1	20100714	EP20060821090	20060915
	FR2891284 A3	20070330	FR20060050218	20060123
	FR2891284 B3	20070720	FR20060050218	20060123
	IN02039CN2008 A	20090227	IN2008CN02039	20080424
	JP3120932 U	20060420	JP20060000825U	20060209
	NL1031032 C1	20060424	NL20061031032	20060130
	RU2008116825 A	20091110	RU20080116825	20060915
	RU2417278 C2	20110427	RU20080116825	20060915
	US2010000130 AA	20100107	US20060088837	20060915
	US2011209364 AA	20110901	US20110028425	20110216
	US7908776 BB	20110322	US20060088837	20060915
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	WO07036828 A3	20070802	WO2006IB53313	20060915

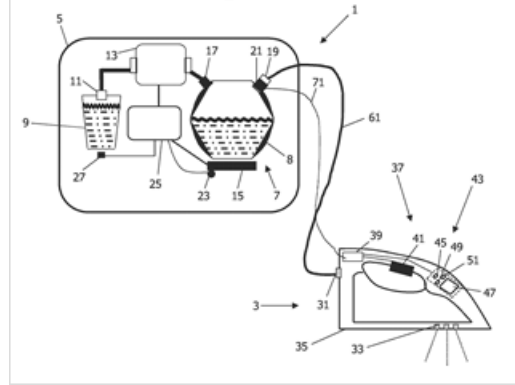
Probable Assignee: PHILIPS ELECTRONICS KONINKLL NV**Assignee(s):(std):** BELLE CHAITHRA ; HAR TANG P ; KONINK PHILIPS ELECTRONICS N V ; KONINKL PHILIPS ELECTRONICS NV ; ROYAL DUTCH PHILIPS ELECTRONICS LTD ; PONG TANG HAR ; NG MO TAN ; NG MO T ; TIEW HOCK S ; TIEW HOCK SOON**Assignee(s):** KONINKLIJKE PHILIPS ELECTRONICS N V EINDHOVEN ; KONINKLIJKE PHILIPS ELECTRONICS N V ; PHILIPS KONINKLL NV ; PHILIPS ELECTRONICS N V KONINKLL ; KONINKLEJKE FILIPS EHLEKTRONIKS NV ; KONINKLEJKE FILIPS EHLEKTRONIKS N V ; PHILIPS ELECTRONICS KONINKLL NV ; PHILIPS ELECTRONICS N V KONINKLL ; KONINKLIJKE PHILIPS ELECTRONICS N V ; KONINKL PHILIPS ELECTRONICS N V**Inventor(s):(std):** HAR TANG P ; NG MO T ; PONG TANG HAR ; TIEW HOCK ; TIEW HOCK S ; TIEW HOCK SOON ; TEU KHOK S ; NG MO TAN ; NG MO ; KHAR TANG P ; HAR TANG PONG ; HAR TANG ; CHAITHRA BELLE ; BELLE CHAITHRA ; BEL SHAJTRA**Inventor(s):** BEL' SHAJTRA ; HOCK SOON TIEW ; MO TAN NG ; TANG PONG HAR ; TANG P HAR ; HOCK S TIEW ; MO T NG**Agent(s):** UITTENBOGAARD FRANK; PHILIPS INTELLECTUAL PROPERTY AND STANDARDS; SHERRY**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 HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR 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**International class (IPC 8-9):** D06F75/06 D06F75/12 D06F75/20 D06F75/26 D06F81/08 D06F87/00 D06M23/00 (Advanced/Invention); D06F75/00 D06F75/26 (Advanced/Non-invention); D06F75/00 D06F75/08 D06F81/00 D06F87/00 D06M23/00 (Core/Invention)**International class (IPC 1-7):** D06F D06F75/12**CPC:** D06F75/12 D06F81/08 D06F87/00**European class:** D06F75/12 D06F81/08 D06F87/00**US class:** 219/247 219/248 38/144 38/144S 38/3 38/3P 38/77.6 38/77.7 38/77.83 38/77.830P 38/77.9 38/77.900S 392/405[Classification Explorer](#)**Cited documents:** WO07012721 A2, WO05054564 A1, WO02070812 A1, US7475504 BB, US6711840 BA, US6678973 BB, US6438876 BB, US6212332 BA, US6061935 A, US5842295 A, US5493799 A, US5307440 A, US3983362 A, JP7039697 A2, JP3295596 A2, EP1482084 A1,

DE202004014412 U1

DE202004014412,

Forward Citations: US9958151, US9926661, US9845568, US9765473, US8156667, US2016289889, US2016168778, US2015316252, US2009084007, US10081905, US10081904, US10030331, RU2663395, RU2632025, RU2618969, JP2017523882, ITMI20120742, EP2952624, EP2905373, DE102014219502, DE102014100756, DE102014100753, CN105442288, CN101858031, CN101858031,**Abstract:**

A garment care system comprising a steam generator (7) having a steam outlet (19), and at least one garment care handset (3) having a steam inlet (31) arranged for coupling to the steam outlet, an opening (33) for releasing steam and a steam control unit (37) arranged for controlling a valve (21) for controlling the release of steam. The steam control unit comprises a selection means (43) having at least two selection options, and a steam release switch (41) electrically connected to the selection means and arranged for starting or stopping the release of steam in dependence on the selected option. The at least two options provide the user with the flexibility to choose or select the way he/she wants to operate the steam release of the handset. The user may select the option that fits best the task at hand. The handset may be an iron suitable for cooperation with a steam generator having a steam outlet or a garment steamer suitable for cooperation with a steam generator having a steam outlet. A method of releasing steam from a garment care system.



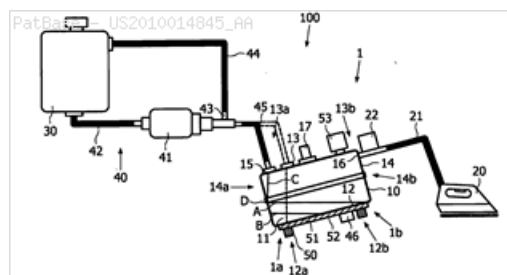
Title: BOILER FOR USE IN A STEAM GENERATING DEVICE
Priority: EP20040106871 20041222 EP20050825362 20051219 WO2005IB54300 20051219
Family:

Publication number	Publication date	Application number	Application date
 CN100590354 C	20100217	CN200580044022	20051219
 CN101084398 A	20071205	CN200580044022	20051219
 EP1831602 A2	20070912	EP20050825362	20051219
 IN03229CN2007 A	20071116	IN2007CN03229	20070720
 JP2008525086 T2	20080717	JP20070547749T	20051219
 JP5150263 B2	20130220	JP20070547749T	20051219
 US2010014845 AA	20100121	US20050722475	20051219
 US7920778 BB	20110405	US20050722475	20051219
 WO06067722 A2	20060629	WO2005IB54300	20051219
 WO06067722 A3	20070208	WO2005IB54300	20051219

Probable Assignee: KONONKLIJKE PHILIPS ELECTRONICS NV
Assignee(s):(std): KONINKL PHILIPS ELECTRONICS NV ; QUAH PENG C ; TAY BARRY E K ; THIRUMAZHISAI SANKARALINGAM TA ; SINGH AJIT P ; ROYAL DUTCH PHILIPS ELECTRONICS LTD
Assignee(s): PHILIPS KONINKLL NV ; KONINKLIJKE PHILIPS ELECTRONICS N V ; KONONKLIJKE PHILIPS ELECTRONICS NV ; PHILIPS ELECTRONICS KONINKLL NV ; PHILIPS ELECTRONICS N V KONINKLL ; TAY BARRY E ; THIRUMAZHISAI SANKARALINGAM TAMILSELVAN ; KONINKL PHILIPS ELECTRONICS N V
Inventor(s):(std): TAY BARRY E K ; THIRUMAZHISAI SANKARALINGAM TA ; THIRUMAZHISAI SANKARALINGAM TAMILSELVAN ; TAY BARRY ENG KEONG ; SINGH AJIT PAL ; QUAH PENG CHAU ; TA THIRUMAZHISAI SANKARALINGAM ; QUAH PENG C ; SINGH AJIT P
Inventor(s): TAY BARRY E
Agent(s): PHILIPS INTELLECTUAL PROPERTY AND STANDARDS
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 KN KP KR KZ LC LI LK LR LS LT LU LV LY 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
International class (IPC 8-9): D06F75/12 D06F75/26 D06F75/32 F22B1/28 F22B37/46 (Advanced/Invention); D06F75/00 D06F75/08 F22B1/00 F22B37/00 (Core/Invention)
International class (IPC 1-7): F22B1/28
CPC: D06F75/12 F22B1/285
European class: D06F75/12 F22B1/28D2
US class: 38/77.6 38/77.600S 392/394 392/394S 392/401 392/401P
[Classification Explorer](#)
Cited documents: US5881207 A, US2004040185 AA, NL9500322 A, EP1619291 A1, EP0855555 A1, EP0821096 A1, EP0821096, EP0438112 A2, DE4304532 A1, DE3941322 A1,
Forward Citations: WO14183789, WO11127620, WO07072271, WO07072271, US9845568, US9677757, US8616157, US2015233573, US2012039586, DE102008061921, CN105229376, CN105229376, CN102121695,

Abstract:

A boiler (1) for heating water to steam comprises a boiler housing (10) having a bottom wall (12), a top wall (13) and a circumferential wall (14) extending between these walls (12, 13). When the boiler (1) is mounted in a steam generating device for generating steam and supplying steam to an appliance such as a steam iron (20), the boiler (1) is given an inclined orientation. In a lower portion (13a) of the top wall (13) of the boiler housing (10), an inlet opening (15) for letting in water to a boiler space (11) which is enclosed by the boiler housing (10) is arranged. When water is supplied through the inlet opening (15), the water lands on a lower zone (14a) of the circumferential wall (14) and flows further in a downward direction, along the circumferential wall (14). As a result, the water is pre-heated when it reaches the water which is already present in the boiler space (11), and there is no danger of the steam production getting interrupted.



Title: STEAM CLEANER
Priority: US20050317469 20051227
Family:

Publication number	Publication date	Application number	Application date
US2007143951 AA	20070628	US20050317469	20051227

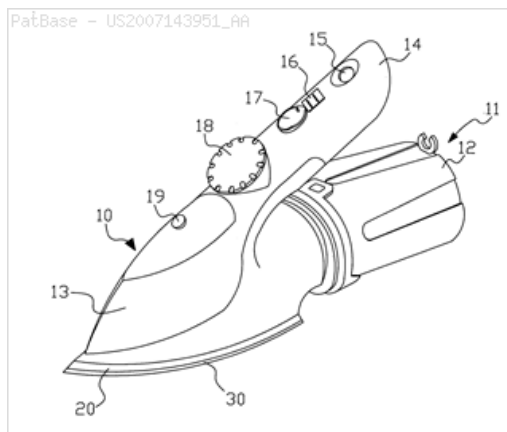
Probable Assignee: WU LIAN BAO
Assignee(s):(std): WU LIAN BAO
Inventor(s):(std): WU LIAN BAO
Agent(s): NIKOLAI AND MERSEREAU PA
International class (IPC 8-9): D06F75/00 (Advanced/Invention);
D06F75/00 (Core/Invention)
CPC: D06F87/00
European class: D06F87/00
US class: 15/320

[Classification Explorer](#)

Forward Citations: USD801598, USD725326, USD592365, US9845568, US9074314, US8534301, US2014373402, EP3230517,

Abstract:

A steam cleaner includes a main body, a water supply system, a connecting member, a support member, a connector, a dust cleaner, and a cleaning unit. Thus, the steam cleaner provides washing, cleaning, dusting and recovery effects simultaneously, thereby enhancing the versatility of the steam cleaner. In addition, the push button is locked by the locking block, so that the water supply system is operated successively, thereby facilitating the user operating the steam cleaner. In addition, the liquid is filtered by the filter before entering the heater to prevent the metallic material contained in the liquid from being attached to the heater, thereby enhancing the lifetime of the steam cleaner.

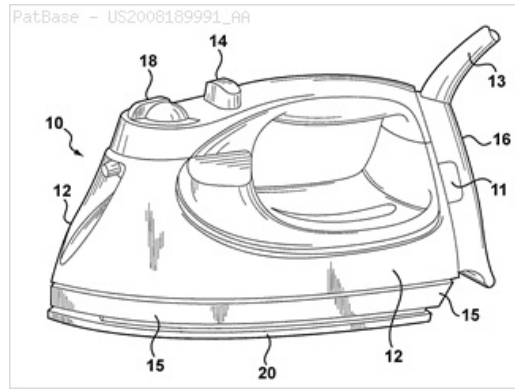


Title: IRON WITH ACTIVELY COOLED SOLEPLATE**Priority:** US20070673708 20070212 US20070746807 20070510

Family:	Publication number	Publication date	Application number	Application date
	US2008189991 AA	20080814	US20070746807	20070510
	US2008189993 AA	20080814	US20070673708	20070212
	US7610701 BB	20091103	US20070746807	20070510
	US7926208 BB	20110419	US20070673708	20070212
	WO08100770 A1	20080821	WO2008US53282	20080207

Probable Assignee: APPLICA CONSUMER PRODUCTS INC**Assignee(s):(std):** CAVADA LUIS ; CAVADA LUIS O ; APPLICA CONSUMER PRODUCTS INC**Assignee(s):** APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; APPLICA INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; HP INTELLECTUAL CORP ; BANK OF AMERICA NA AGENT AS ; KWIKSET CORP ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SALTON INC ; SONEX INT ; SONEX INT CORP ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; RUSSELL HOBBS INC ; TETRA HOLDING US INC ; TOASTMASTER INC ; ROYAL BANK OF CANADA**Inventor(s):(std):** CAVADA LUIS ; CAVADA LUIS O**Agent(s):** BAKER BOTTS LLP PATENT DEPARTMENT; KING AND SPALDING LLP; ARMSTRONG TEASDALE LLP; PREWITT BRIAN K**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**International class (IPC 8-9):** D06F75/00 D06F75/08 D06F75/10 D06F75/26 D06F75/38 (Advanced/Invention); D06F75/08 D06F75/38 (Advanced/Non-invention); D06F75/00 D06F75/08 (Core/Invention); D06F75/00 (Core/Non-invention)**CPC:** D06F75/08 D06F75/246 D06F75/06 D06F75/26 D06F75/38**European class:** D06F75/06 D06F75/08 D06F75/24L D06F75/26 D06F75/38**US class:** 38/75 38/77.82 38/82 38/82P 38/85 38/85S 38/93 38/93S[Classification Explorer](#)**Cited documents:** WO03046272 A1, USD529249 S1, USD519699 S1, USD519249 S1, USD516765 S1, USD516764 S1, USD515762 S1, USD502791 S1, USD488275 S1, USD481186 S1, USD480525 S1, USD480524 S1, USD478401 S1, USD472354 S1, USD470636 S1, USD464780 S1, USD457996 S1, USD443122 S1, USD441931 S1, USD441157 S1, USD436704 S1, USD435325 S1, USD433551 S1, USD431339 S1, USD427403 S1, USD421324 S1, USD418649 S1, USD418648 S1, USD406933 S1, USD389627 S1, USD388574 S1, USD373870 S1, USD369890 S1, USD369005 S1, USD369004 S1, USD364950 S1, USD335010 S1, USD314459 S1, USD262771 S1, US7610701 BB, US7516566 BB, US7472504 BB, US7185450 BB, US7124523 BB, US6953912 BB, US6785989 BB, US6437292 BA, US5979089 A, US5937552 A, US5886322 A, US5864122 A, US5799422 A, US5780812 A, US5777297 A, US5664349 A, US5642579 A, US5619813 A, US5494058 A, US5392542 A, US5380983 A, US5279054 A, US5210394 A, US5105525 A, US5094021 A, US5042179 A, US4860434 A, US4857702 A, US4856212 A, US4835363 A, US4642922 A, US4602143 A, US4274214 A, US4207456 A, US4122615 A, US4089128 A, US3906187 A, US3869596 A, US3663798 A, US3263350 A, US3098922 A, US2928194 A, US2889439 A, US2373345 A, US2371257 A, US2357905 A, US2325017 A, US2320013 A, US2257451 A, US2222327 A, US2179890 A, US2142032 A, US2138720 A, US2006263074 AA, US2006179692 AA, US2006156592 AA, US2004026398 AA, US2003177672 AA, US2002148824 AA, US2002029498 AA, US1472185 A, US1347224 A, US1237726 A, US1010092 A, GB2163459 A1, FR681052, FR2543180 A1, EP0681052 A1, EP0438673 A1, EP0281987 A1, DE19634870 C1, CA2477750 AA,**Forward Citations:** WO10130548, USD708410, US9994993, US9879373, US9756922, US9038290, US8671941, US8112916, US8091257, US7926209, US7926208, US2017335506, US2013125428, US2011146679, US2010242314, US2010236110, US2010192426, US2008235998, US2008189993, JP6010234, JP2016501663, ITTV20120194, GB2484689, EP3263760, EP3230517, CN102421960,**Abstract:**

A method for cooling a soleplate of an iron, the method comprising: flowing a cooling fluid adjacent at least a portion of the soleplate; and transferring heat energy from the soleplate to the cooling fluid. A device for removing wrinkles from fabric, the device comprising: a soleplate; a heater element associated with the soleplate so as to heat the soleplate; and a housing of the soleplate and heater element connected to one of the soleplate and heater element, wherein the housing comprises a cooling fluid vent, wherein a cooling fluid is passable through the cooling fluid vent so that heat energy is transferred from one of the soleplate and the heater element to the cooling fluid. A device for removing wrinkles from fabric, the device comprising: a soleplate comprising a thickness less than 2.0 mm; a heater element associated with the soleplate so as to heat the soleplate; at least one turbulator associated with the soleplate; a fan associated with the soleplate so as to pump a cooling fluid in heat-transfer communication with at least a portion of the soleplate, whereby heat energy is transferred from the soleplate to the cooling fluid; and a controller in signal communication with the fan.



Title: STEAM CHANNELING STRUCTURE
Priority: US20080052033 20080320 TW20090201691U 20090205
Family:

	Publication number	Publication date	Application number	Application date
	TWM360254 Y	20090701	TW20090201691U	20090205
	US7516565 BA	20090414	US20080052033	20080320

Probable Assignee: CHENG JIN CUN
Assignee(s):(std): CHENG JIN CUN ; TSEN SAMSON
Inventor(s):(std): CHENG JIN CUN ; TSEN SAMSON
Agent(s): FRENKEL AND ASSOCIATES PC
International class (IPC 8-9): D06F75/14 D06F75/20 (Advanced/Invention); C07C229/28 C07D233/64 D06F75/06 (Advanced/Non-invention)
CPC: A47L13/22 A47L13/225 D06F75/10 D06F75/20 D06F79/00
European class: A47L13/22 A47L13/22B D06F75/10 D06F75/20 D06F79/00
US class: 15/321 38/77.1

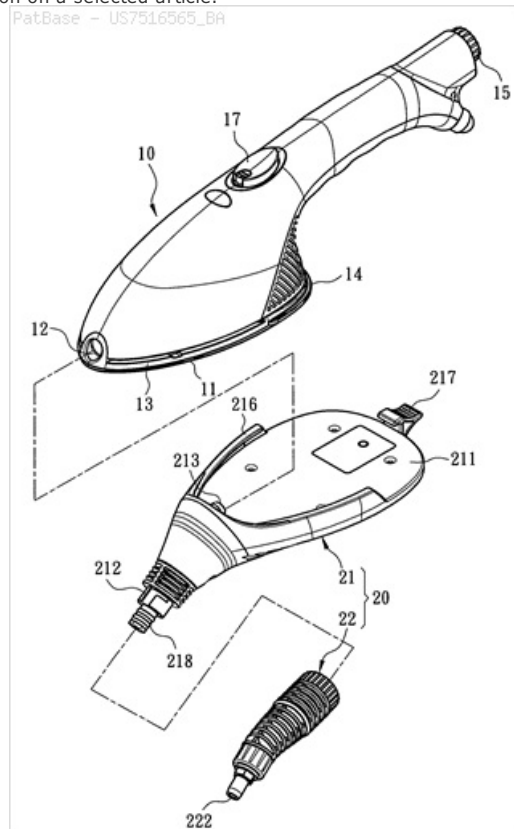
[Classification Explorer](#)

Cited documents: US7389597 BA, US7051462 BA, US6986217 BB, US6935056 BB, US6877183 BB, US6711840 BA, US6536379 BA, US6513269 BB, US6490753 BA, US6484347 BA, US6438876 BB, US6079133 A, US6061935 A, US5642579 A, US5609047 A, US5400462 A, US4692588 A, US3983644 A, US3721026 A, US3675449 A, US2713225 A, US2674819 A, US2007102414 AA,

Forward Citations: WO13067913, USD801598, USD799134, USD725326, USD651774, USD646445, USD646029, USD624265, US9845568, US9624620, US9493905, US9433335, US9357891, US9082272, US9074314, US8919357, US8893410, US8850654, US8424227, US8151496, US2016374533, US2016053429, US2012137465, US2012023789, US2011219646, US2011073135, US2010146826, JP6165319, JP2016516522, EP2868798, CN102926157, CN102926157,

Abstract:

A steam channeling structure adopted for use on a steam iron to transfer steam to perform cleaning function. The steam iron includes at least a soleplate heated to perform ironing function and at least one steam vent. The steam channeling structure includes a coupling dock and at least one cleaning tool mounted onto the coupling dock. The coupling dock has a protective portion to cover the soleplate and a steam directing portion communicating with the steam vent to direct steam discharged through the steam vent. The cleaning tool has a steam passage connecting to the steam directing portion and a steam channeling vent located in the steam passage. Steam generated by the steam iron is conveyed through the steam directing portion to the steam channeling vent to be discharged to perform steam cleaning function on a selected article.

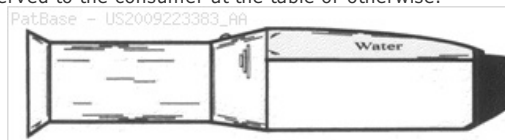


Title: CORDLESS HAND HELD DEVICE AND METHOD OF HEATING/REHEATING FOOD**Priority:** US20080068245P 20080306 US20090380940 20090305

Family:	Publication number	Publication date	Application number	Application date
	US2009223383 AA	20090910	US20090380940	20090305
	US8245630 BB	20120821	US20090380940	20090305

Probable Assignee: HOURANEY F WILLIAM**Assignee(s):(std):** HOURANEY F WILLIAM ; HOURANEY F WILLIAM**Inventor(s):(std):** HOURANEY F WILLIAM ; HOURANEY F WILLIAM**Agent(s):** F WILLIAM HOURANEY**International class (IPC 8-9):** A47J36/00 A47J36/24 (Advanced/Invention);
A47J36/00 (Core/Invention)**CPC:** A47J27/04 A47J36/2483**European class:** A47J36/24Q K47J27/04**US class:** 126/226 126/369 126/401 219/240 219/533 239/136 392/404 99/330 99/447 99/447P 99/483[Classification Explorer](#)**Cited documents:** US7155117 BB, US5857262 A, US5642570 A, US5420961 A, US4897525 A, US4495432 A, US4326119 A, US4145600 A, US4114022 A, US385794 A, US3749092 A, US3702616 A, US3570276 A, US3559886 A, US3422240 A, US2863979 A, US2601011 A, US2467393 A, US2002178932 AA, US2002157276 AA, DE4307321 A1,**Forward Citations:** US9845568, US9770127, US9635713, US9574764, US9326578, US9149058, US2015374161, US2015215993, US2014208605, US2014199455,**Abstract:**

The invention relates to a portable cordless hand held device and method for heating or reheating food directly in a dish such as a plate, bowl, cup, platter or serving bowl with steam, hot air or their mix and applying this steam and/or heat to foods conveniently and at anytime needed or desired after the food has been served to the consumer at the table or otherwise.

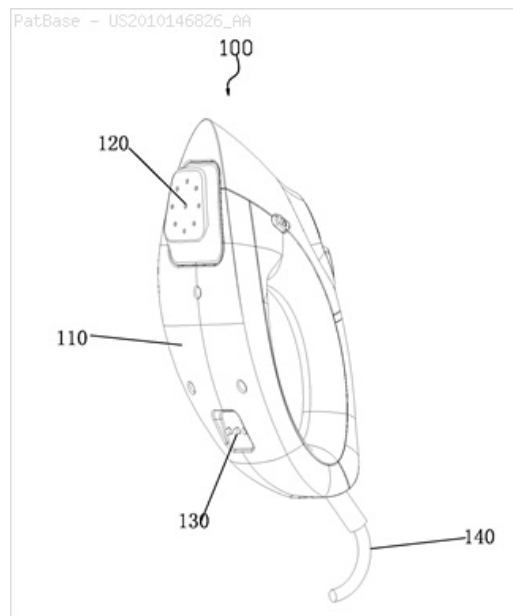


Title: MULTIFUNCTIONAL ELECTRIC IRON**Priority:** CN200820229414U 20081212 WO2009CN75529 20091212

Family:	Publication number	Publication date	Application number	Application date
	CN201317890 Y	20090930	CN200820229414U	20081212
	EP2377990 A1	20111019	EP20090831482	20091212
	EP2377990 A4	20130306	EP20090831482	20091212
	JP3157719 U	20100225	JP20090008876U	20091214
	US2010146826 AA	20100617	US20090637011	20091214
	US8151496 BB	20120410	US20090637011	20091214
	WO10066205 A1	20100617	WO2009CN75529	20091212

Probable Assignee: TSANN KUEN ZHANGZHOU ENTERPRISE CO LTD**Assignee(s):(std):** LEE CHIH HWA ; LEE CHIH HWA ; PAN CHIEN CHIH ; PAN CHIEN CHIH ; ZHENGZHOU CANKUN INDUSTRY CO L ; TSANN KUEN ZHANGZHOU ENTPR CO ; TSANNKUEN ZHANGZHOU ENTERPRISE CO LTD ; ZHENGZHOU CANKUN IND CO L**Assignee(s):** ZHENGZHOU CANKUN IND CO ; ZHENGZHOU CANKUN INDUSTRY CO LTD ; TSANN KUEN ZHANGZHOU ENTERPRISE CO LTD ; TSANN KUEN ZHANGZHOU ENTERPRISE CO ; TSANN KUEN (ZHANGZHOU) ENTERPRISE CO LTD ; ZHENGZHOU CANKUN INDUSTRY CO**Inventor(s):(std):** LEE CHIH HWA ; LEE CHIH HWA ; PAN CHIEN CHIH ; PAN CHIEN CHIH ; ZHIHUA LI ; JIANZHI PAN**Inventor(s):** PAN JIANZHI ; LI ZHIHUA**Agent(s):** LERMER CHRISTOPH; RABIN AND BERDO PC; SHOUCHUANG JUNHE PATENT AGENT CO LTD XIAMEN**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 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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class (IPC 8-9):** D06F75/08 D06F75/14 D06F75/16 D06F75/18 D06F75/26 D06F75/30 D06F75/32 D06F79/00 D06F87/00 F22B1/28 (Advanced/Invention); D06C7/00 (Advanced/Non-invention); D06F75/00 D06F75/08 D06F79/00 D06F87/00 (Core/Invention)**CPC:** D06F87/00 D06F75/16 D06F75/26 D06F75/12**European class:** D06F75/12 D06F75/32**US class:** 38/75 38/77.83 38/77.830P 38/81 38/88 38/94 38/94S 68/222[Classification Explorer](#)**Cited documents:** WO9849385 A1, USD547067 S1, US7516565 BA, US7155117 BB, US6031969 A, US4532411 A, US4032747 A, US3690024 A, US3646317 A, US2458530 A, US2005028408 AA, JP402243199, JP2243199 A2, EP0452713 A1, EP000452713, CN2414095 Y, CN201317890 Y, CA1208117 A1,**Forward Citations:** WO15121598, WO15106054, WO12089155, WO11134312, WO11072579, WO10066205, USD712109, USD625892, US9845568, US9708753, US9624620, US9540761, US9410283, US9200403, US8776409, US2016047083, EP2514866, CN102061602,**Abstract:**

This invention discloses a multifunctional electric iron, comprising: a steam brush and a base unit. Said steam brush can be used as a garment steamer by connecting to a power supply or a boiler, and said steam brush also can be used as an ordinary steam iron by assembling with the base unit.



Title: APPARATUS AND METHOD FOR A STEAMER

Priority: US20080102601P 20081003 US20090552105 20090901 WO2009US57231 20090917

Family:

Publication number	Publication date	Application number	Application date
CA2679715 AA	20100403	CA20092679715	20090917
CN101713532 A	20100526	CN200810187445	20081229
CN101929671 A	20101229	CN200910179262	20090929
CN201373377 Y	20091230	CN200820184693U	20081229
US2010086287 AA	20100408	US20090552105	20090901
WO10039438 A1	20100408	WO2009US57231	20090917

Probable Assignee: EURO PRO OPERATING LLC

Assignee(s):(std): EURO PRO OPERATING LLC ; ROSENZWEIG MAX ; VRDOLJAK OGNJEN ; ULEPOLOR TRADING CO LTD

Assignee(s): BANK OF AMERICA NA ; ULEPOLOR TRADING CO ; SHARKNINJA OPERATING LLC

Inventor(s):(std): MAXIMILIAN ROSENZWEIG ; OGNJEN VRDOLJAK ; ROSENZWEIG MAX ; ROSENZWEIG MAXIMILIAN ; VRDOLJAK OGNJEN ; MAX ROSENZWEIG ; AAGEGY FAVRETOJACK

Inventor(s): FAVRETOJACK AAGEGY

Agent(s): VENABLE LLP; GOZZI JUSTINE ALEXIS MARIE ET AL

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A47J27/04 A47L11/34 B08B3/00 D06F39/00 D06F75/18 D06F75/24 D06F75/30 F04D15/00 F22B1/28 F22B3/00 F22B33/00 F22B37/10 F22G1/00 (Advanced/Invention); F22B3/00 F22G1/00 (Core/Invention)

CPC: A47J27/04 D06F39/008 F22B1/285

European class: D06F39/00V F22B1/28D2 K47J27/04

US class: 392/387 392/387P 392/394 392/394S

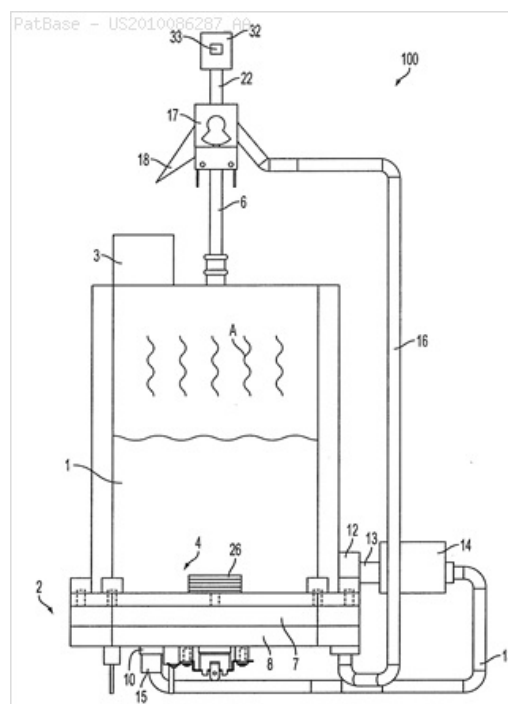
[Classification Explorer](#)

Cited documents: US7380307 BB, US7213541 BB, US7155117 BB, US6647931 BA, US6622404 BB, US6067403 A, US6061935 A, US5943472 A, US5730006 A, US5719990 A, US5581919 A, US4571483 A, US4532412 A, US4511376 A, US4414037 A, US4173300 A, US4032748 A, US3899108 A, US3861179 A, US3823497 A, US3781519 A, US3695066 A, US3660635 A, US3637979 A, US3333747 A, US3208652 A, US3030792 A, US2807503 A, US2783549 A, US2530067 A, US2214923 A, US2213288 A, US2035724 A, US2008047172 AA, US2008040953 AA, US2007102414 AA, US2006213092 AA, US2006107910 AA, US2005150261 AA, US2005115120 AA, US2002179732 AA, US1763761 A, US1498662 A, GB638641 A, GB536981 A, FR689252 A, EP0942230 A1,

Forward Citations: WO16090538, US9845568, US9367068, US9345358, US8857228, US8464562, US2013098892, EP3034685, EP2832915, EP2832915, EP2568075, CN106073649, CN105942934, CN104154514, CN104154514, CN103982887, CN103782097, CN103782097, CN103534398, CN103534398, CN102389258,

Abstract:

A steam apparatus including a first steam apparatus to produce a first steam having a humidity level at or above a first predetermined level and having a temperature at or below a first predetermined temperature and a second steam apparatus to produce a second steam having a humidity level at or below a second predetermined level and having a temperature at or above a second predetermined temperature. An output apparatus is configured to receive the first steam and the second steam and output the first steam, the second steam, or a hybrid steam defined by a mixture of the first steam and the second steam. An atomizer may be included to assist the steam generation.



Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

Agent(s):

International class (IPC 8-9):

CPC:

European class:

US class:

Classification Explorer

Cited documents:

Forward Citations:

STEAMER

US20080096307P 20080911US20090584680 20090910

Publication number

Publication date

Application number

Application date

US2010058623 AA

20100311

US20090584680

20090910

US8272152 BB

20120925

US20090584680

20090910

PRODUCTS OF TOMORROW INC

FERNANDEZ JUAN ; PRODUCTS OF TOMORROW INC

FERNANDEZ JUAN

GEARHART LAW LLC

B01D1/00 D06F71/32 D06F71/34 D06F75/30 (Advanced/Invention);
D06C7/00 (Advanced/Non-invention);
B01D1/00 D06F71/00 (Core/Invention)

D06F71/18 D06F73/00 D06F87/00

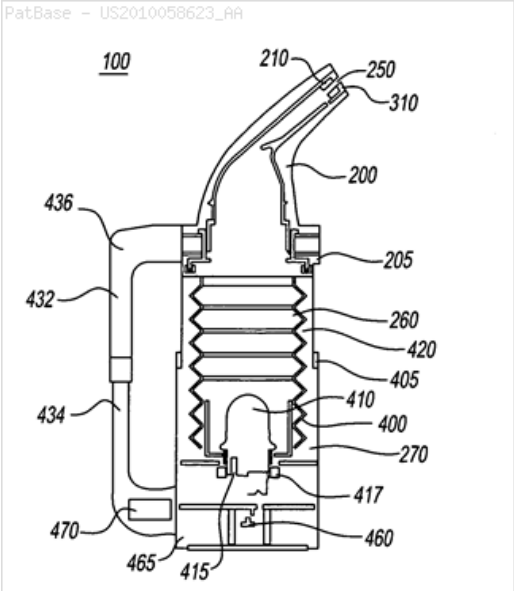
D06F71/18 D06F73/00 D06F87/00

38/14 38/141 38/141S 38/14P 38/77.9 392/394 392/394S 68/222

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WO15161115, USD826492, USD708801, USD707900, USD700413, US9915024, US9854824, US9845568, US9642191, US9567705, US9410283, US8407920, US2016053430, US2009277973, US2009178308,

Abstract:
The invention is a steamer head, which includes a steamer body having a front face having at least one steam hole, the steam hole being in fluid communication with a steam chamber; and a crease panel assembly movably connected to the steamer body, the crease panel having a crease panel face, wherein the crease panel face has at least a portion in substantially parallel orientation to the front face.



Title: FABRIC CARE APPLIANCE
Priority: US20100357565F 20100312
Family:

Publication number	Publication date	Application number	Application date
■ CN301462449 S	20110209	CN201030242986F	20100714
■ USD648494 S1	20111108	US20100357565F	20100312

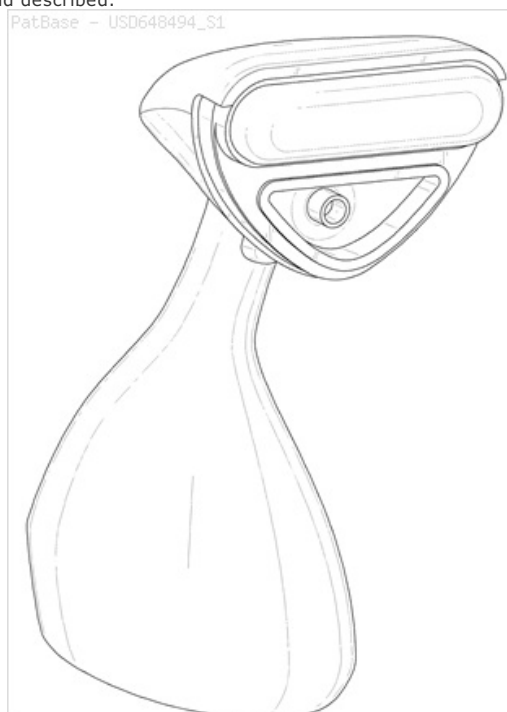
Probable Assignee: EURO PRO OPERATING LLC
Assignee(s):(std): EURO PRO OPERATING LLC
Assignee(s): JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; SHARKNINJA OPERATING LLC
Inventor(s):(std): VARNEY JAMES RUSSELL ; VRDOLJAK OGNJEN
Agent(s): WOLF GREENFIELD AND SACKS PC
US class: D32/17
Locarno class: 15/05 07/05

[Classification Explorer](#)

Cited documents: USD622457 S1, USD620651 S1, USD620208 S1, USD611208 S1, USD601807 S1, USD601806 S1, USD595461 S1, USD589663 S1, USD547067 S1, USD524546 S1, USD501065 S1, USD481841 S1, USD475490 S1, USD473987 S1, USD465309 S1, USD436424 S1, USD426924 S1, USD418641 S1, USD380950 S1, USD229664 S1, USD229016 S1, USD222502 S1, USD205994 S1, USD200092 S1, US6275653 BA, US5590439 A, US5224237 A, US3805425 A, US3620055 A, US2011030249 AA,

Forward Citations: USD826492, USD821668, USD820540, USD808600, USD776887, USD674564, US9845568,

Abstract:
(Claim 1) The ornamental design for a fabric care appliance, as shown and described.

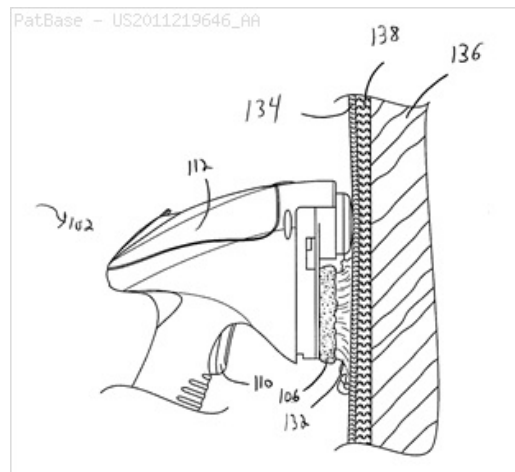


Title: FABRIC CARE APPLIANCE
Priority: US20100723623 20100312
Family:

	Publication number	Publication date	Application number	Application date
■	CN102191678 A	20110921	CN201010244011	20100729
■	CN201842992 U	20110525	CN201020279174U	20100729
■	US2011219646 AA	20110915	US20100723623	20100312
■	US8893410 BB	20141125	US20100723623	20100312
■	WO11112378 A2	20110915	WO2011US26459	20110228
■	WO11112378 A3	20120119	WO2011US26459	20110228

Probable Assignee: SHARKNINJA OPERATING LLC
Assignee(s):(std): LAM PEGGY ; VRDOLJAK OGNJEN ; ROSENZWEIG MARK ; VARNEY JAMES RUSSELL ; EURO PRO OPERATING LLC ; YOULUO PULUO OPERATION CO LTD
Assignee(s): SHARKNINJA OPERATING LLC ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; YOULUO PULUO OPERATION CO ; BANK OF AMERICA NA AGENT AS
Inventor(s):(std): LAHM PEGG ; LAM PEGGY ; MARK ROSENZWEIG ; OGNJEN VRDOLJAK ; PEGGY LAM ; ROSENZWEIG MARK ; RUSSELL VARNEY JAMES ; VARNEY JAMES RUSSELL ; VRDOLJAK OGNJEN
Inventor(s): JAMES RUSSELL VARNEY ; JAMESRUSSELLVARNEY ; OGNJENVRDOLJAK ; PEGG LAHM ; PEGGLAHM ; MARKROSENZWEIG
Agent(s): WOLF GREENFIELD AND SACKS PC ; AMUNDSEN ERIC L
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 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 PE PG PH PL PT RO RS RU 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
International class (IPC 8-9): D06F71/02 D06F71/34 D06F71/36 D06F75/16 D06F75/18 D06F75/20 D06F75/24 D06F75/30 D06F75/38 (Advanced/Invention); D06F75/30 (Advanced/Non-invention)
CPC: D06F75/30 D06F75/16
European class: D06F75/16 D06F75/30
US class: 38/77.8 38/77.800P 38/77.83 38/82 38/82S 38/88 38/93 68/222 D32/17
[Classification Explorer](#)
Cited documents: USD622457 S1, USD620651 S1, USD620208 S1, USD611208 S1, USD601807 S1, USD601806 S1, USD595461 S1, USD589663 S1, USD473987 S1, USD465309 S1, USD436424 S1, USD426924 S1, USD229664 S1, USD229016 S1, USD222502 S1, US8365447 BB, US7721474 BB, US7673404 BB, US7661212 BB, US7516565 BA, US7490422 BA, US7475504 BB, US7380556 BB, US7155117 BB, US6986217 BB, US6513269 BB, US6499519 BA, US6438876 BB, US6275653 BA, US6009645 A, US5987788 A, US5651201 A, US5590439 A, US5224237 A, US4716276 A, US3805425 A, US3690024 A, US3620055 A, US3110975 A, US3077900 A, US3071879 A, US3001305 A, US2970394 A, US2743542 A, US2713225 A, US2674819 A, US2011030249 AA, US2009000162 AA, US2008066789 AA, KR19980074275 A, JP2001204997 A2, CN201842992 U, CN1973079 A, CN1352712 A, CN101082173 A, KR19980074275 A, JP2001204997 A2, CN201842992 U, CN1973079 A, CN1352712 A, CN101082173 A,
Forward Citations: WO16090538, WO15180980, USD808600, USD670876, US9845568, CN106480693, CN106414836, CN102191678,

Abstract:
Appliances, methods and systems in which steam can be applied to a fabric and a heated surface can be used to press and/or dry the fabric.

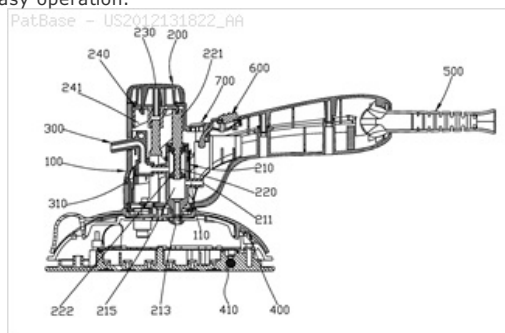


Title: STEAM BLOW HEAD OF THE GARMENT STEAMER**Priority:** CN201020628951U 20101126**Family:**

Publication number	Publication date	Application number	Application date
 CN201883321 U	20110629	CN201020628951U	20101126
 US2012131822 AA	20120531	US20110304480	20111125

Probable Assignee: TSANN KUEN ZHANGZHOU ENTERPRISE CO LTD**Assignee(s):(std):** CAI RUIFENG ; PAN CHIEN CHIH ; TSANN KUEN ZHANGZHOU ENTPR CO ; TSANNKUEN ZHANGZHOU ENTERPRISE CO LTD**Assignee(s):** TSANN KUEN (ZHANGZHOU) ENTERPRISE CO LTD ; TSANN KUEN ZHANGZHOU ENTERPRISE CO ; TSANN KUEN ZHANGZHOU ENTERPRISE CO LTD**Inventor(s):(std):** JIANZHI PAN ; RUIFENG CAI ; PAN CHIEN CHIH ; CAI RUIFENG**Inventor(s):** PAN JIANZHI**International class (IPC 8-9):** D06F75/12 D06F75/20 D06F75/24 D06F75/34 D06F87/00 (Advanced/Invention)**CPC:** D06F87/00 D06F75/12**European class:** D06F75/12 D06F87/00**US class:** 38/3 38/3P 38/77.6 38/77.600S 38/77.9 38/77.900S[Classification Explorer](#)**Cited documents:** US7490422 BA, US7389597 BA, US4366367 A, US3188758 A, US3077900 A, US3001305 A, US2006213092 AA,**Forward Citations:** USD700413, US9845568, US9624620, US2016053429, US2014173867, CN104060451, CN104060451,**Abstract:**

The present invention is provided with a steam blow head of the garment steamer, which includes a body and a switching unit. The body is disposed with a steam inlet, a first steam outlet and a second steam outlet. The switch includes a valve body with an inlet and two outlets, a valve disc movable to switch the connection between the two outlets and the inlet and a switch. The inlet is connected to the steam inlet, and the two outlets are separately connected to the first steam outlet and the second steam outlet. The valve is movable disposed inside the body, and the switch is driving connected to the valve disc outside the body. The steam blow head of the garment steamer is full function and art structure with easy operation.



Title: STEAM CLEANER
Priority: US20110384349F 20110131
Family:

Publication number	Publication date	Application number	Application date
USD646029 S1	20110927	US20110384349F	20110131

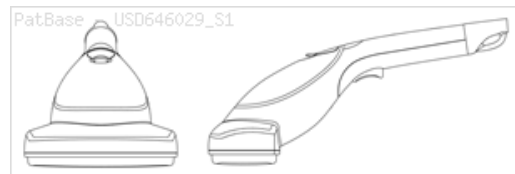
Probable Assignee: CHOI LUNG WAI
Assignee(s):(std): CHOI LUNG WAI
Inventor(s):(std): CHOI LUNG WAI
US class: D32/17
Locarno class: 15/05

[Classification Explorer](#)

Cited documents: USD622457 S1, USD601807 S1, USD601806 S1, USD595964 S1, USD595461 S1, USD592365 S1, USD589663 S1, USD576363 S1, USD574568 S1, USD561958 S1, USD547067 S1, USD541500 S1, USD541494 S1, USD540498 S1, USD476160 S1, USD426924 S1, USD319121 S1, US7516565 BA, US7490422 BA,

Forward Citations: USD808600, USD731723, USD725326, USD722731, USD716007, USD707902, US9845568,

Abstract:
(Claim 1) The ornamental design for a steam cleaner, as shown.



Title: HANDHELD STEAMER
Priority: US20100381444F 20101220
Family:

Publication number	Publication date	Application number	Application date
CA141021 S	20120206	CA20110141021F	20110616
CN301853678 S	20120307	CN201130192915F	20110620
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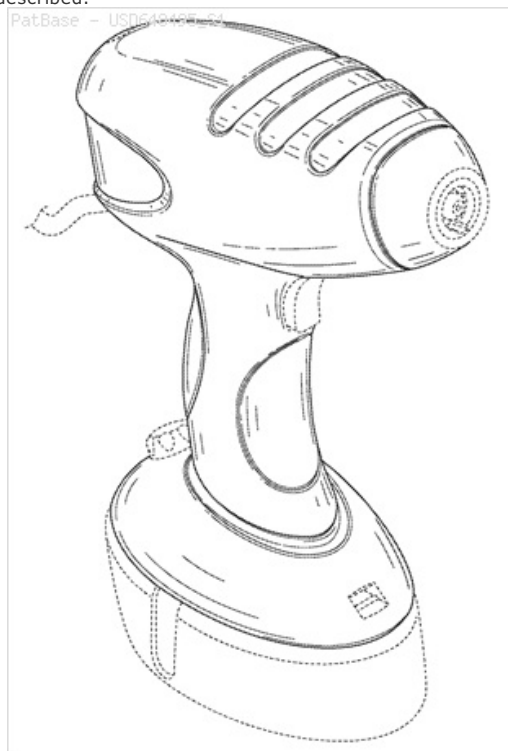
Probable Assignee: VORNADO AIR LLC
Assignee(s):(std): VORNADO AIR LLC
Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; WILMINGTON SAVINGS FUND SOCIETY FSB
Inventor(s):(std): EDIGER GLEN W ; ISRAEL GARY P
Agent(s): BLANEY MCMURTRY LLP; ADVENT IP PC LLO
US class: D32/17
Locarno class: 15/05

[Classification Explorer](#)

Cited documents: USD623363 S1, USD605820 S1, USD572097 S1, USD542488 S1, USD525399 S1, USD516759 S1, USD481841 S1, USD475490 S1, USD436424 S1, USD426924 S1, USD421670 S1, USD421513 S1, USD250115 S1, USD229664 S1, USD222502 S1, USD205994 S1, US6536379 BA, US6314972 BA, US5590439 A, US4078525 A, US2783092 A, US2668315 A,

Forward Citations: USD826492, USD808600, USD776887, US9845568,

Abstract:
(Claim 1) The ornamental design for a handheld steamer, as shown and described.

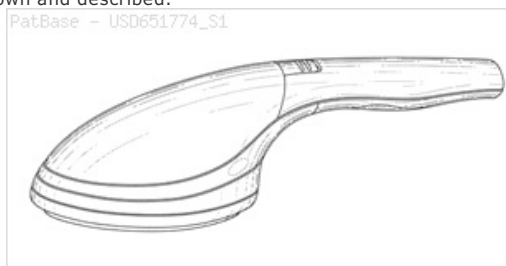


Title: HANDHELD GARMENT STEAMER**Priority:** US20100377457F 20101021

Family:	Publication number	Publication date	Application number	Application date
	USD651774 S1	20120103	US20100377457F	20101021

Probable Assignee: TOBIAS ANDREW J**Assignee(s):(std):** TOBIAS ANDREW J**Inventor(s):(std):** TOBIAS ANDREW J**Agent(s):** LAW OFFICES OF KAMRAN FATTAHI**US class:** D32/17**Locarno class:** 15/05[Classification Explorer](#)**Cited documents:** USD624254 S1, USD622457 S1, USD601807 S1, USD601806 S1, USD595964 S1, USD595461 S1, USD587867 S1, USD578259 S1, USD566349 S1, USD564152 S1, USD564149 S1, USD556960 S1, USD556397 S1, USD473987 S1, USD465309 S1, USD448895 S1, USD426924 S1, USD425307 S1, USD371650 S1, USD364013 S1, USD200092 S1, US7661212 BB, US7516565 BA, US7478455 BB, US6986217 BB, US6536379 BA, US6347428 BA, US6266846 BA, US4899418 A, US2006056824 AA,**Forward Citations:** USD808600, USD801598, USD722731, USD709617, US9845568,**Abstract:**

(Claim 1) The ornamental design for a handheld garment steamer, as shown and described.



Title:

IRON WITH DUAL STEAM CHAMBERS

Priority:

US20100369191P 20100730 US20110192039 20110727

Family:

Publication number	Publication date	Application number	Application date
CN202170442 U	20120321	CN201120279093U	20110801
US2012023789 AA	20120202	US20110192039	20110727
US8424227 BB	20130423	US20110192039	20110727

Probable Assignee:

SUNBEAM PRODUCTS INC

Assignee(s):(std):

HARRINGTON JOHN ; SUNBEAM PRODUCTS INC

Inventor(s):(std):

HARRINGTON J ; HARRINGTON JOHN

Inventor(s):

J HARRINGTON ; JHARRINGTON

Agent(s):

MICHAEL J

International class

D06C7/00 D06F75/14 D06F75/20 D06F75/24 D06F75/32 D06F75/38 (Advanced/Invention);

(IPC 8-9):

D06F75/28 (Advanced/Non-invention)

CPC:

F22B1/284 D06F75/18 D06F75/20 D06F87/00

European class:

D06F75/18 D06F75/20 D06F87/00

US class:

34/389 34/389S 38/144 38/144S 38/77.8 38/77.800S 38/77.83 38/77.9 38/77.900P 38/81 38/81S

Classification Explorer

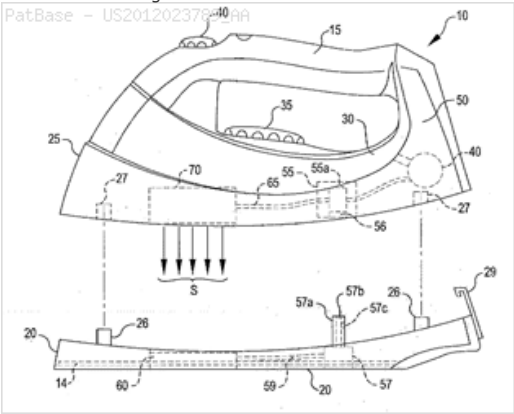
Cited documents:

US8276297 BB, US7516565 BA, US7490422 BA, US7389597 BA, US6953912 BB, US2970394 A, US2713225 A, US2006213092 AA, US1840652 A,

Forward Citations:

WO15078043, US9922391, US9832017, US9708753, US9589309, US9159113, US8776409, US2016161108, US2016161107, US2016047083, US2014153721, EP3230517, CN104562616,

Abstract:
A convertible appliance and related method for treating a garment. The appliance includes a housing, a water tank disposed in the housing, a soleplate removably attached to the housing, a first steam chamber configured to generate and emit steam from the soleplate in a first configuration when the soleplate is attached to the housing, a second steam chamber configured to generate and emit steam from the housing in a second configuration when the soleplate is removed from the housing, a valve arrangement configured to fluidly connect the water tank to the first steam chamber when in the first configuration, and alternately, fluidly connect the water tank to the second chamber when in the second configuration.



Title: Vertical garment steamer
Priority: CN201220085782U 20120308
Family:

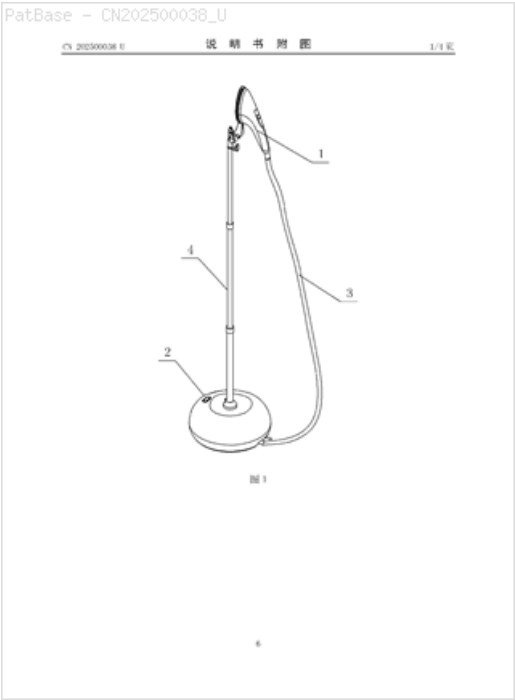
Publication number	Publication date	Application number	Application date
 CN202500038 U	20121024	CN201220085782U	20120308

Probable Assignee: PANASONIC WANBAO APPLIANCES ELECTRIC IRON GUANGZHOU CO LTD
Assignee(s):(std): PANASONIC WANBAO APPLIANCES ELECTRIC IRON GUANGZHOU CO LTD
Inventor(s):(std): TOYOHICO YAGI ; ZHANGBIN HUANG
Inventor(s): HUANG ZHANGBIN ; YAGI TOYOHICO
International class D06F75/10 D06F75/26 (Advanced/Invention)
(IPC 8-9):

[Classification Explorer](#)

Forward Citations: WO16090538, CN103614892, CN103290642, CN103290641,

Abstract:
The utility model belongs to the technical field of vertical garment steamers. Specifically, a vertical garment steamer is disclosed. The vertical garment steamer comprises an ironing body, a water tank, a base assembly of a water pump, a supporting rod assembly for supporting the ironing body, and a pipeline assembly, wherein the ironing body comprises an ironing head portion and a handle portion; a rack for placing the ironing body is disposed on the supporting rod assembly; a steam generator is disposed in the ironing head; the steam generator communicates with the pipeline assembly; and a control switch which is used for stopping supplying water to the steam generator when the ironing body is placed on the rack is disposed between the ironing body and the rack in a matching manner. With the vertical garment steamer, an aim for automatically stopping the steam when a user temporally stops using the vertical garment steamer is realized. In addition, since the function of automatically stopping the steam is adopted, the user needs not to manually turn off the steam switch, and thus efficiency of ironing garments and convenience for ironing garments are improved, and at the same time, a problem of energy waste due to the continuous working of the steam generator in case that the user forgets to turn off the switch when he or she stops using the vertical garment steamer can be prevented.



Title: FABRIC CARE APPLIANCE
Priority: US20100357564F 20100312
Family:

Publication number	Publication date	Application number	Application date
USD670876 S1	20121113	US20100357564F	20100312

Probable Assignee: EURO PRO OPERATING LLC
Assignee(s):(std): EURO PRO OPERATING LLC ; VARNEY JAMES RUSSELL ; VRDOLJAK OGNJEN
Assignee(s): JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; SHARKNINJA OPERATING LLC
Inventor(s):(std): VARNEY JAMES RUSSELL ; VRDOLJAK OGNJEN
Agent(s): WOLF GREENFIELD AND SACKS PC
US class: D32/17
Locarno class: 15/05

[Classification Explorer](#)

Cited documents: USD622457 S1, USD620651 S1, USD620208 S1, USD611208 S1, USD601807 S1, USD601806 S1, USD595461 S1, USD589663 S1, USD547067 S1, USD524546 S1, USD501065 S1, USD481841 S1, USD475490 S1, USD473987 S1, USD465309 S1, USD436424 S1, USD426924 S1, USD418641 S1, USD380950 S1, USD229664 S1, USD229016 S1, USD222502 S1, USD205994 S1, USD200092 S1, US6275653 BA, US5590439 A, US5224237 A, US3805425 A, US3620055 A, US2011219646 AA, US2011030249 AA,

Forward Citations: USD826492, USD808600, USD776887, US9845568,

Abstract:
(Claim 1) The ornamental design for a fabric care appliance, as shown and described.



Title: MINI STEAMER
Priority: US20110406382F 20111114
Family:

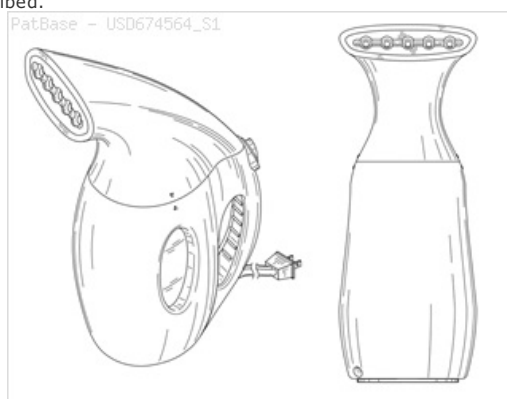
Publication number	Publication date	Application number	Application date
USD674564 S1	20130115	US20110406382F	20111114

Probable Assignee: INGENIOUS DESIGNS LLC
Assignee(s):(std): INGENIOUS DESIGNS LLC ; MANGANO JOY
Inventor(s):(std): MANGANO JOY
Agent(s): KENYON AND KENYON LLP
US class: D32/17
Locarno class: 15/05

[Classification Explorer](#)

Cited documents: USD656693 S1, USD648494 S1, USD634493 S1, USD623363 S1, USD620651 S1, USD620208 S1, USD611208 S1, USD598614 S1, USD592366 S1, USD587866 S1, USD563063 S1, USD525399 S1, USD519694 S1, USD488269 S1, USD485651 S1, USD482505 S1, USD481183 S1, USD452051 S1, USD233209 S1, USD221992 S1, US2010269287 AA, US2010024492 AA, US2008022480 AA, US2005274403 AA, US2005125934 AA,
Forward Citations: USD826492, USD821668, USD820540, USD818231, USD776887, USD771331, USD753354, USD734575, USD716007, USD711058, USD708801, USD707902, USD707900, USD704399, USD702406, US9845568,

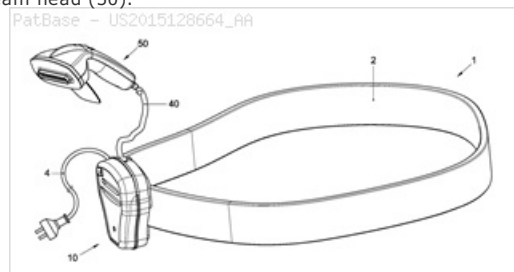
Abstract:
(Claim 1) The ornamental design for a mini steamer, as shown and described.



Title:	GARMENT STEAMER AND METHOD FOR THE SAME																																																								
Priority:	US20110548257P 20111018		CN201220034080U 20120131		WO2012IB55599 20121015																																																				
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US2015128664 AA	20150514	US20120351350	20121015																																																						
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Probable Assignee:	PHILIPS KONINKLL NV																																																								
Assignee(s):(std):	KONINKL PHILIPS ELECTRONICS NV ; KONINKL PHILIPS NV ; KONINKLEJKE FILIPS NV ; ROYAL DUTCH PHILIPS ELECTRONICS LTD ; PHILIPS KONINKLL NV																																																								
Assignee(s):	PHILIPS NV KONINKLL ; KONINKLIJKE PHILIPS ELECTRONICS N V ; PHILIPS ELECTRONICS KONINKLL NV ; PHILIPS ELECTRONICS N V KONINKLL																																																								
Inventor(s):(std):	DATE MILIND VISHVAS ; DATE MILIND VISHWAS ; JIANG YONG ; LEE NICHOLAS ; LEE NICHOLAS JOHN ; LI NIKOLAS DZHON ; M T H PELGRIM ; M V DAITL ; MAARTEN THEODOOR HENRIC PELGRIM ; MILIND VISHWAS DATE ; PELGRIM MAARTEN THEODOOR HENRIC ; PELGRIM MARTEN TEODOR KHENRIK ; TSZYAN YUN ; YONG JIANG ; N J LEE ; NICHOLAS JOHN LEE																																																								
Inventor(s):	NJLEE ; MTHPELGRIM ; MVDAITL																																																								
Agent(s):	COOPS PETER; COOPS PETER ET AL																																																								
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 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 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																																																								
International class (IPC 8-9):	A47L11/34 A47L11/40 D06B1/02 D06F58/00 D06F58/20 D06F73/00 D06F75/12 D06F75/14 D06F75/20 D06F79/00 D06F87/00 (Advanced/Invention)																																																								
CPC:	D06F87/00 A47L11/34 A47L11/4086 D06F73/00 D06F75/12 D06F75/20																																																								
US class:	223/51 34/487 68/5A																																																								
Classification Explorer																																																									
Cited documents:	WO10122131 A1, WO10089565 A1, WO10089565, WO07012721 A2, US6073301 A, US5430963 A, US5430963, US4833298 A, US4578884 A, US3919793 A, US3793753 A, US2010166396 AA, US2007000159 AA, US2005081923 AA, JP49082088 U1, JP49082088 U, JP3057428 U, JP3057428 U, JP2002514950 T2, JP2002514950, JP2000107497 A2, JP2000107497, JP11989107482 U, JP1107482 U, JP1107482 U, JP10127540 A2, GB2364896 B2, GB2364896 A1, GB2342101 A1, GB161325 A, FR2853671 A1, CN202744852 U, CN202017144 U, CN201883320 U, CN201770881 U, CN201362798 Y, CN101892577 A, BE1015696 AD,																																																								
Forward Citations:	WO16090538, WO15193040, WO15103600, GB2511102, GB2511102, CN106414837, CN105980623, CN105463815, CN104195807, CN104195807, CN104032556, CN104032556, CN104032555, CN104032554, CN103061093,																																																								

Abstract:

A garment steamer (1) comprising a base body (10) accommodating a liquid water tank (26); a liquid water pump (32), having a water inlet (32a) and a water outlet (32b), wherein the water inlet (32a) is fluidly connected to the liquid water tank (26). The garment steamer also comprises a steam head (50) that is moveable with respect to the base body (10) and that accommodates a steam chamber (70), having a liquid water inlet and a steam outlet, wherein said steam outlet includes at least one steam nozzle (76); a heating element (72) that is provided in or adjacent said steam chamber (70), and configured to evaporate liquid water passing through said steam chamber. A liquid water tube (38b, 38c) fluidly interconnects the water outlet (32b) of the water pump (32) and the liquid water inlet of the steam chamber (70) in the steam head (50).



Title:

IRONING AND BRUSHING STRUCTURE

Priority:

CN201220604974U 20121115

Family:

Publication number	Publication date	Application number	Application date
 CN202989633 U	20130612	CN201220604974U	20121115

Probable Assignee:

ZHEJIANG HUAGUANG ELECTRIC APPLIANCE GROUP CO LTD

Assignee(s):(std):

ZHEJIANG HUAGUANG ELECTRIC APPLIANCE GROUP CO LTD ; ZHEJIANG HUAGUANG ELECTRIC GROUP CO LTD

Assignee(s):

ZHEJIANG HUAGUANG ELECTRIC APPLIANCE GROUP CO

Inventor(s):(std):

XU JIANQUN

International class (IPC 8-9):

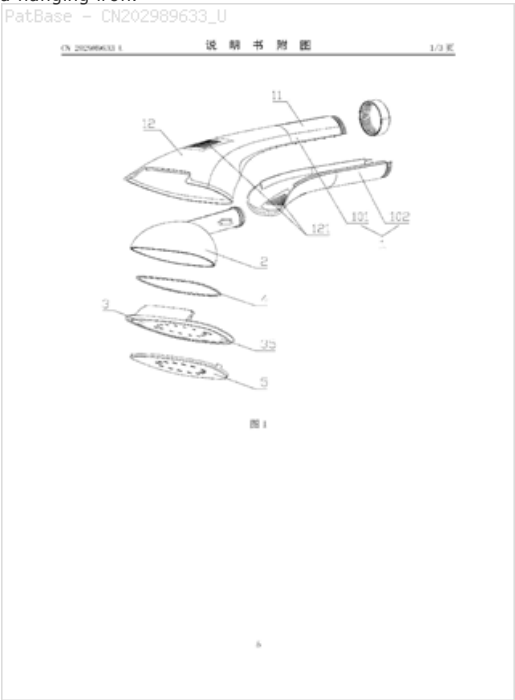
D06F75/24 (Advanced/Invention)

[Classification Explorer](#)

Forward Citations:

WO16090538, US9845568,

Abstract:
The utility model discloses an ironing and brushing structure and belongs to a household appliance accessory. The ironing and brushing structure solves the problems that an ironing and brushing handle is over high in temperature and condensate water exists in a steam outlet and comprises a shell body, a steam chamber and a steam spray cover board. The shell body comprises a handle portion and a brush located at the front end of the handle portion. The steam chamber is arranged inside the brush. The steam spray cover board is arranged at the front end of the steam chamber and connected with the steam chamber in a sealing mode. The rear end of the steam chamber is communicated with a steam outlet tube. The brush is provided with a heat dissipation structure. The ironing and brushing structure is mainly used in a hanging iron.

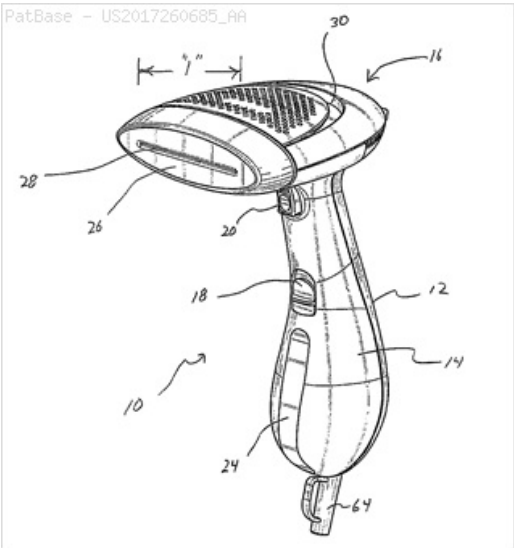


Title: PORTABLE HANDHELD STEAMER APPARTUS
Priority: WO2014CN093302 20141208
Family:

Publication number	Publication date	Application number	Application date
BR112017012188 A2	20180116	BR20171112188	20141208
CA2969977 AA	20170606	CA20142969977	20141208
CA2969977 C	20180403	CA20142969977	20141208
CN205636266 U	20161012	CN201521009867U	20151208
CN207608742 U	20180713	CN201490001636U	20141208
CO20170006783 A2	20170831	CO20170006783	20170705
EP3230517 A1	20171018	EP20140907891	20141208
EP3230517 A4	20171220	EP20140907891	20141208
IL252734 A0	20170831	IL20140252734	20141208
KR20170003029 U	20170829	KR20177000050U	20141208
TR201708480 T1	20171023	TR20170008480T	20141208
US2017260685 AA	20170914	US20140028830	20141208
US9845568 BB	20171219	US20140028830	20141208
WO16090538 A1	20160616	WO2014CN093302	20141208

Probable Assignee: CONAIR CORP
Assignee(s):(std): CONAIR ; KAM FAI FUNG
Assignee(s): CONAIR CORP
Inventor(s):(std): FAI FUNG KAM ; FUNG KAM FAI ; KAM FAI FUNG
Agent(s): AIRD AND MCBURNEY LP; MARGARITA CASTELLANO ABONDANO; PRONOVEM; HATICE TOKSOY; JOSEPH W; LAWRENCE; NTD PATENT AND TRADEMARK AGENCY LTD
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
International class (IPC 8-9): D06F D06F75/10 D06F75/14 D06F75/18 D06F75/24 D06F87/00 (Advanced/Invention); D06F (Subclass/Invention)
International class (IPC 1-7): D06F75/18
CPC: D06F87/00 D06F75/18 D06F75/10
[Classification Explorer](#)
Cited documents: USD674564 S1, USD670876 S1, USD651774 S1, USD648495 S1, USD648494 S1, USD646029 S1, USD436424 S1, US8365446 BB, US8272152 BB, US8245630 BB, US8151496 BB, US7920778 BB, US7908776 BB, US7516565 BA, US7327409 BB, US7191554 BB, US7155117 BB, US6986217 BB, US6839933 BB, US6622404 BB, US6061935 A, US6031969 A, US5341541 A, US4571483 A, US4496826 A, US3002302 A, US2655746 A, US2012131822 AA, US2012023789 AA, US2011219646 AA, US2011209364 AA, US2008189991 AA, US2007143951 AA, US2006018638 AA, US2005125934 AA, EP0164975 A2, CN202989633 U, CN202744852 U, CN202500038 U, CN201842992 U, CN101929671 A,
Forward Citations: FR3060027, CN106480693,

Abstract:
A steamer apparatus, includes a housing defining a steam outlet, a fluid reservoir for storing fluid, a steam generator mounted in the housing and in fluid communication with the fluid reservoir for generating steam and releasing the steam through the steam outlet, a pump for pumping the fluid from the fluid reservoir to the steam generator, a trigger mounted to the housing and a trigger lock associated with the trigger. The trigger is adapted to move from an inoperative condition to an operative condition to activate one of the pump and the steam generator. The trigger lock is movable between a release position permitting free movement of the trigger between the inoperative condition and the operative condition and a lock position securing the trigger in the operative condition.

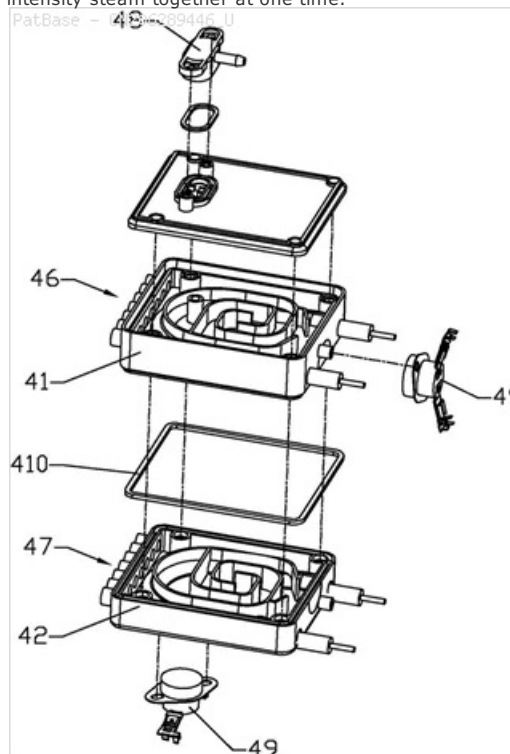


Title: STEAM GENERATOR AND MULTI -FUNCTIONAL STEAM BRUSH OF SUPER LARGE STEAM VOLUME**Priority:** CN201611040475 20161121 CN201621261624U 20161121

Family:	Publication number	Publication date	Application number	Application date
	CN106480693 A	20170308	CN201611040475	20161121
	CN206289446 U	20170630	CN201621261624U	20161121

Probable Assignee: NINGBO KAIBO GROUP CO LTD**Assignee(s):(std):** NINGBO KAIBO GROUP CO LTD**Assignee(s):** NINGBO KAIBO GROUP CO**Inventor(s):(std):** YAN JIEBO ; LIN HUOMU**International class**
(IPC 8-9): D06F73/00 (Advanced/Invention)**CPC:** D06F73/00[Classification Explorer](#)**Cited documents:** US2008040953 AA, JP2001204997 A2, CN206289446 U, CN205636266 U, CN204589678 U, CN202157222 U, CN201842992 U, CN201339136 Y, CN201228328 Y, CN201080569 Y, CN106012466 A, CN105734946 A,**Forward Citations:** CN106480693,**Abstract:**

The utility model discloses a steam generator and multi -functional steam brush of super large steam volume belongs to clothes ironing equipment, and currentization boiler furnace steam flow is said shortly, can't obtain a large amount of steam in the short time, the utility model discloses steam generator includes two at least boilers that stack, and every boiler has independent steam flow way, a heating element of changing, and the steam flow of changing of two at least boilers says and establish ties together, changes like this more than the twice that vapour flow path length said for existing product steam flow on the market. The volume of improving steam greatly under the same condition of product power, the steam volume improves greatly, and the per minute reaches 40 grams on /. Because every boiler all can set up the venthole, realize multilayer steam outlet hole and the purpose of spraying multiple mass dryness fraction and multiple injection intensity steam together at one time.



Title:

STEAM IRONING APPARATUS

Priority:

FR20160062358 20161213

Family:

Publication number	Publication date	Application number	Application date
FR3060027 A1	20180615	FR20160062358	20161213
WO18109325 A1	20180621	WO2017FR53428	20171207

Probable Assignee:

SEB SA

Assignee(s):(std):

SEB S A ; SEB SA

Inventor(s):(std):

BOCHARD ARNAUD ; LAVOINE JEAN PIERRE ; CORDIER THOMAS

Inventor(s):

JEAN PIERRE LAVOINE ; THOMAS CORDIER ; ARNAUD BOCHARD

Agent(s):

SEB DEVELOPPEMENT; SEB DEVELOPPEMENT BOURRIERES PATRICE

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

International class

D06F73/00 D06F75/30 D06F87/00 (Advanced/Invention);

(IPC 8-9):

D06F75/14 (Advanced/Non-invention)

CPC:

D06F75/14 D06F87/00

Classification Explorer

Cited documents:

WO16090538 A1, FR2169206 A1, CN104831510 A,

Abstract:

The invention relates to a steam ironing apparatus including a handle (2) connected to a steam-emitting head (3) including a treatment surface (30A) intended for being placed vertically opposite a garment to be ironed and comprising at least one steam outlet opening (31), the steam-emitting head (3) including a heating body (6) comprising a steaming chamber (60) including a bottom wall (64) forming an angle of 45 degrees to 90 degrees with the treatment surface (30A) and including means (50) for injecting liquid into the steaming chamber (60), characterised in that said means (50) for injecting liquid comprise at least two nozzles (50) injecting liquid onto two separate steaming areas (60A, 60B) of the steaming chamber (60).

