

Diego Gonzalez

1) Family number: 22806301 (US2951927A)

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Title: ELECTRIC SOLDERING IRON

Abstract: (Claim 1) While several embodiments of the invention have been shown and described, it is apparent that other modifications may be made in the invention without departing from the spirit and scope thereof, and it is desired, there-fore, that only such limitations shall be placed thereon as are imposed by the prior art and are set forth in the appended claims.

Classifications:

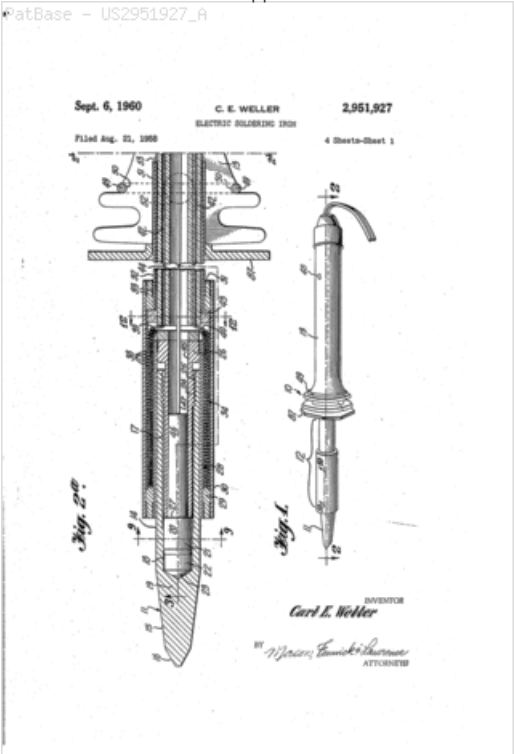
International (IPC 8-9): B23K3/03 (Advanced/Invention);
B23K3/02 (Core/Invention)

International (IPC 1-7): G06F7/48 H05B1/02

CPC: B23K3/0338

European: B23K3/03J

US: 219/227 219/229 219/239 219/240 219/241 219/495 219/510 236/88



Family:

Publication number	Publication date	Application number	Application date
US2951927 A	19600906	US19580756435	19580821

Priority:

US19580756435 19580821

Probable Assignee:

WELLER CARL E

Assignee(s): (std):

WELLER CARL E

Inventor(s): (std):

WELLER CARL E

2) Family number: 22054022 (US3287541A)

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Title: TEMPERATURE CONTROLLED SOLDERING IRON

Abstract: 1,023,737. Soldering. WELLER ELECTRIC CORPORATION. Sept. 21, 1964 [July 13, 1964], No. 38492/64. Heading B3R. [Also in Division H2] The invention relates to the "thermomagnetic" thermostat of a soldering iron. The tip 11 of the soldering iron has a thermomagnetic element 19 and is secured in a doublewalled stainless steel jacket 20, 22 containing a non-inductive heating winding 23 and mounted by means of epoxy resin in the cover flange 21 of the plastics handle 13, by a draw tube 26 which is screwed to the flange 21. The handle carries the contacts of the thermostat. Interchangeable tips are provided for different temperature ranges.

Classifications:

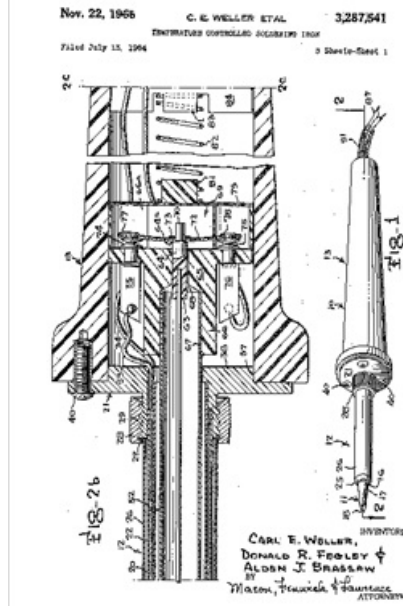
International (IPC 8-9): B23K3/03 H01H37/58 (Advanced/Invention);
B23K3/02 H01H37/00 (Core/Invention)

International (IPC 1-7): H05B1/02

CPC: B23K3/03 B23K3/033 H01H37/58

European: B23K3/03 B23K3/03H H01H37/58

US: 219/238 219/241 219/495 228/55 335/146 361/211

**Family:**

Publication number	Publication date	Application number	Application date
DE1565198 A1	19700122	DE19651565198	19650712
DE1565198 B2	19711021	DE19651565198	19650712
GB1023737 A	19660323	GB19640038492	19640921
US3287541 A	19661122	US19640382156	19640713

Priority:

US19640382156 19640713

Probable Assignee: WELLER ELECTRIC CORP**Assignee(s):** (std): WELLER ELECTRIC CORP ; WELLER ELEKTRO WERKZEUGE GMBH**Inventor(s):** (std): BRASSAW ALDEN J ; EASTON PA ; ELMO WELLER CARL ; FEGLEY DONALD R ; J BRASSAW ALDEN ; R BRASSAW DONALD ; WELLER CARL E**3) Family number: 74258377 (US2019240756A)**

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Title: ELECTRIC SOLDERING APPARATUS, IN PARTICULAR A SOLDERING IRON

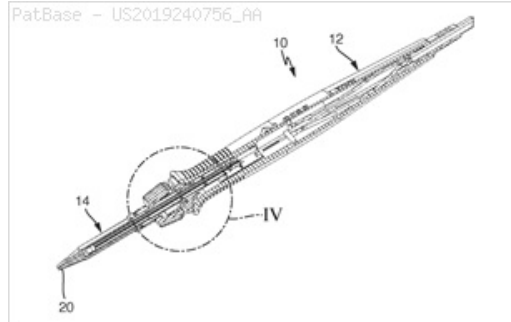
Abstract: The invention relates to an electric soldering apparatus, in particular a soldering iron, comprising a handle portion, a heating element fastened to the handle portion, a hollow soldering tip into which the heating element engages and fastening means for releasably fastening the soldering tip to the handle portion, wherein the fastening means comprise a permanent magnet that surrounds the heating element, and a ferromagnetic holding part that interacts with the permanent magnet and surrounds the heating element, such that the holding part is non-rotatably arranged on the permanent magnet. The invention also relates to a soldering system comprising a soldering apparatus according to any of the preceding claims, and a removal device for removing the soldering tip from the handle portion.

Classifications:**International (IPC 8-9):** B23K3/02 B23K3/03 (Advanced/Invention);

A61B18/08 B25B23/00 (Advanced/Non-invention)

CPC: B23K3/026 B23K3/0338 B23K3/0361 B23K3/0369

PatBase - US2019240756_A

**Family:**

Publication number	Publication date	Application number	Application date
DE102018102792 B3	20190509	DE201810102792	20180208
EP3524378 A2	20190814	EP20190154371	20190130
EP3524378 A3	20190911	EP20190154371	20190130

MX2019001602 A1	20190809	MX20190001602	20190207
US2019240756 AA	20190808	US20190270114	20190207

Priority:

DE201810102792 20180208

Probable Assignee: ERSA GMBH

Assignee(s): (std): ERSA GMBH

Inventor(s): (std): EUGEN WEISSENBERGER ; WEISSENBERGER EUGEN

Agent(s): DREISS PATENTANWALTE PARTG MBB

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

4) Family number: 66164270 (US2018360523A)

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Title: VAPOR ABLATION SYSTEMS AND METHODS

Abstract: A vapor delivery needle is provided that may include any of a number of features. One feature of the energy delivery probe is that it can apply condensable vapor energy to tissue, such as a prostate, to shrink, damage, denature the prostate. In some embodiments, the vapor delivery needle can be advanced a predetermined distance into the prostate with a solenoid actuation mechanism. Methods associated with use of the energy delivery probe are also covered.

Classifications:

International (IPC 8-9): A61B A61B18/04 A61B18/14 A61B18/18

A61F7/00 A61F7/12 F22B1/28 H01F7/08 H01F7/13

H01F7/16 (Advanced/Invention);

A61B (Subclass/Invention)

International (IPC 1-7): A61B18/04 A61B18/18 A61F7/00 A61F7/12

F22B1/28 H01F7/08

CPC: A61B18/04 A61B2018/00547 A61B2018/00577 A61B2018/00827

A61B2018/048 A61B2018/1475 F22B1/28 H01F7/13 H01F7/1615

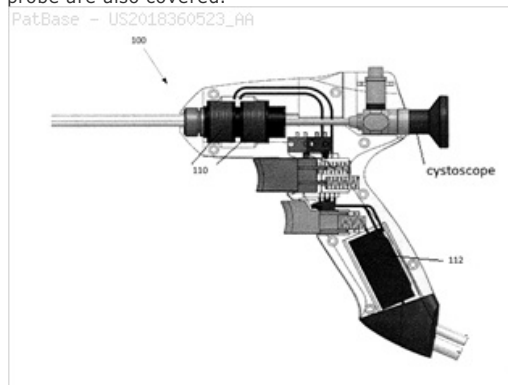
H01F2007/1692 A61B18/042 A61B18/14

US: 1/1 606/27

JP F-Term: 4C160 4C160/FF19 4C160/FF47 4C160/MM53 4C160/NN02

4C160/NN09 4C160/NN23

JP F-Index: A61B18/04



Family:

Publication number	Publication date	Application number	Application date
AU2016371153 AA	20180628	AU20160371153	20161219
BR112018012199 A2	20181127	BR20181112199	20161219
CA3008282 AA	20180612	CA20163008282	20161219
CN108472070 A	20180831	CN201680079303	20161219
EP3389527 A1	20181024	EP20160876915	20161219
EP3389527 A4	20190807	EP20160876915	20161219
IL259920 A0	20180731	IL20160259920	20161219
IN201817021602 A	20181005	IN201817021602	20180608
JP2019505266 T2	20190228	JP20180532059T	20161219
US2018360523 AA	20181220	US20160781721	20161219
WO17106843 A1	20170622	WO2016US67558	20161219

Priority:

US20150269776P 20151218

US20160357742P 20160701

WO2016US67558 20161219

US20160781721 20161219

Probable Assignee: NXTERA INC

Assignee(s): (std): NXTERA INC ; BOSTON SCIENT SCIMED INC

Assignee(s): BOSTON SCIENTIFIC SCIMED INC ; BYLAND TIMOTHY D ; BACHMEIER BRIAN A ; HASTINGS ROGER NOEL ; SCHROM MARK ; CARLSON STEVEN ; HOEY MICHAEL ; WOO KARLIAM C

Inventor(s): (std): BRIAN A BACHMEIER ; KARLIAM C WOO ; TIMOTHY D BYLAND ; MICHAEL HOEY ; STEVEN CARLSON ; MARK SCHROM ; ROGER NOEL HASTINGS ; HOEY MICHAEL ; SCHROM MARK ; HASTINGS ROGER NOEL ; CARLSON STEVEN ; WOO KARLIAM C ; BACHMEIER BRIAN A ; BYLAND TIMOTHY D

Agent(s): GRIFFITH HACK; SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO; SMART AND BIGGAR IP AGENCY CO; POTTER CLARKSON LLP; DESHIMARU TAKESHI; MATSUSHITA MITSURU; KURASAWA ICHIRO; THOMAS JUSTIN 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 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 JP KE KG KH KM KN KP KR KW 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

5) Family number: 3262227 (DE3224579C1)

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Title: Electrical soldering apparatus

Abstract: The electrical soldering apparatus (1) is designed to be intrinsically safe. It has a main housing (2) consisting of sheet steel for holding the electrical components, including a connecting device (7) which, via a switching device, closes or opens the operating circuit of the soldering iron (4) to an intrinsically safe operating power source. Constructed on the main housing (2) is a soldering iron holder (3) which bounds a chamber (30), closed on all sides, for holding the heating rod (40) of the soldering iron (4). A detector (12) monitors the engagement of the soldering iron (4) in the soldering iron holder (3). In the connecting device (7) there is a time-delay circuit (70) which interrupts the operating circuit of the soldering iron (4) as a function of the detector signal when the soldering iron is removed from the soldering iron holder (3) for a predetermined time.

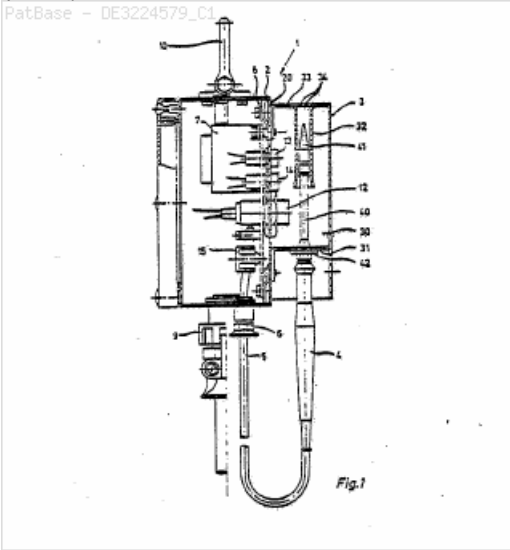
Classifications:

International (IPC 8-9): B23K3/03 (Advanced/Invention);
B23K3/02 (Core/Invention)

International (IPC 1-7): B23K3/00 E21F9/00

CPC: B23K3/03

European: B23K3/03



Family:

Publication number	Publication date	Application number	Application date
DE3224579 C1	19831229	DE19823224579	19820701

Priority:

DE19823224579 19820701

Probable Assignee: GUTH HEINRICH
Assignee(s): (std): GUTH HEINRICH
Assignee(s): GUTH HEINRICH 4600 DORTMUND DE
Inventor(s): (std): GUTH HEINRICH
Inventor(s): GUTH HEINRICH 4600 DORTMUND DE

6) Family number: 1776091 (US4358661A)

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Title: Electric soldering iron with vibratory soldering bit

Abstract: An electric soldering iron includes an electric heating element mounted on an elongated stem rigidly secured in cantilever fashion at one end to a casing having a pistol grip handle. A soldering bit surrounds the heating element in spaced relation thereto for receiving heat essentially by radiation therefrom and is supported on one end of a protective tube resiliently mounted at its other end to the casing independently of the stem. A vibrator elastically mounted in the casing is coupled to the protective tube for vibrating the soldering bit at a frequency of 10-100 Hz without effecting vibration of the heating element. The handle is provided with a magnet for maintaining the soldering iron in an upright position on a stand comprising an iron plate adapted to be secured to a surface by vacuum cups. The soldering iron is provided with an adjustable light for illuminating the work area and an electronic heater control for regulating the soldering bit temperature. A layer of insulating material and a ceramic jacket cover all but the tip of the soldering bit to reduce heat loss and protect the bit.

Classifications:

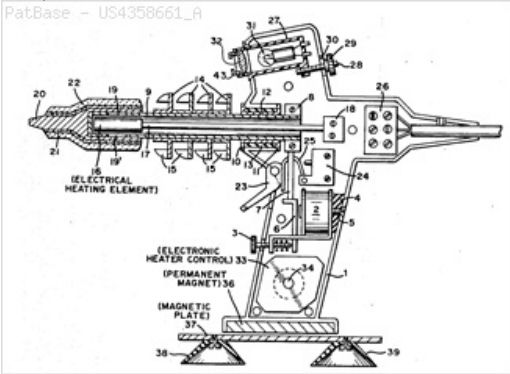
International (IPC 8-9): B23K3/03 (Advanced/Invention)

International (IPC 1-7): B23K1/06 B23K3/02 B23K3/04

CPC: B23K3/03

European: B23K3/03

US: 219/230 219/236 219/241 219/242 228/51 228/56.2 248/117.2 248/206.5



Family:

Publication number	Publication date	Application number	Application date
DE2928827 B1	19800828	DE19792928827	19790717
DE2928827 C2	19810730	DE19792928827	19790717
US4358661 A	19821109	US19800130044	19800313

Priority:

DE19792928827 19790717

Probable Assignee: KADERABEK MILOS

Assignee(s): (std): KADERABEK MILOS

Assignee(s): KADERABEK MILOS 7000 STUTTGART ; KADERABEK MILOS 7000 STUTTGART DE

Inventor(s): (std): KADERABEK MILOS

Inventor(s): KADERABEK MILOS 7000 STUTTGART DE ; KADERABEK MILOS 7000 STUTTGART

7) Family number: 20720904 (GB865347A)

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Title: Improvements in and relating to electric soldering irons

Abstract: 865,347. Magnetic switches. WELLER, C. E. Nov. 21, 1958 [Aug. 21, 1958], No. 37542/58. Class 38 (5). [Also in Group XI] A control switch in an electrically heated soldering iron is actuated by the variations in permeability with temperature of a thermomagnetic member located in intimate thermal communication with the soldering tip of the iron. As shown, a soldering iron comprises a tubular barrel 32 supporting at one end a handle 13 at the other end a heating element assembly 28, 30 which surrounds a soldering tip 11 having a recess housing a thermomagnetic control member 20 formed of a material which is ordinarily magnetic but which is of reduced magnetic strength when heated to a sufficiently high temperature, e.g. 700° F. A cap member 27 lies adjacent the element 20 and is flanged to fit over an inner tube 24 within which is slidably mounted a cylindrical magnet 46 connected by a rod 47 to the insulating armature 58 of a control switch located in the handle 13 and wired in series with the energizing circuit and comprising a fixed contact 68 carried by a member 64 and a movable contact 73 carried by a resilient member 69 urged to the " off " position by a spring 75. The magnetic force between the magnet 46 and the member 20 is ordinarily such that the armature 58 engages the contact member 69 to keep the switch in the closed position shown in Fig. 7. At the desired control temperature, e.g. an idling temperature of 675° F., the attraction between the control element 20 and the magnet 46 will have so diminished that the spring 75 will be capable of opening the control switch.

Classifications:

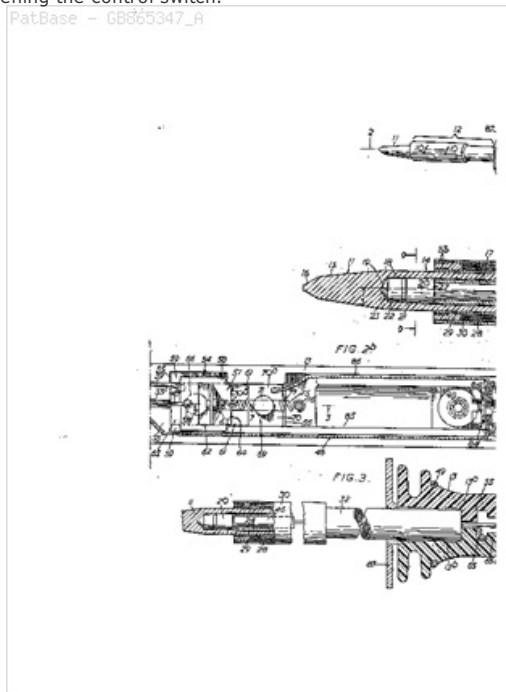
International (IPC 8-9): B23K3/03 (Advanced/Invention);
B23K3/02 (Core/Invention)

International (IPC 1-7): H05B1/02

CPC: B23K3/0315

European: B23K3/03D

PatBase - GB865347_A



Family:

Publication number	Publication date	Application number	Application date
GB865347 A	19610412	GB19580037542	19581121

Priority:

19580821

Probable Assignee:

CARL ELMO WELLER

Assignee(s): (std):

CARL ELMO WELLER

8) Family number: 16409743 (DE8218842U1)

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Abstract: Source: DE8218842U1 [DE] (Claim 1) 1. Elektrisches Loetgeraet mit einem Loetkolben, der aus einem Griffteil, einem Heizstab mit einer elektrischen Heizpatrone enthaltenden Loetspitze und einer Zuleitung besteht, ferner mit einer die Heizpatrone mit einer Betriebsstromquelle verbindenden Anschalteinrichtung und einem Halter zur loesbaren Halterung des beheizten Loetkolbens, d gekennzeichnet, dass zur eigensicheren Ausfuehrung des Loetgeraets (1) die Anschaltenrichtung (2) und die Anschuesse (15) der Loetkolbenzuleitung (5) in einem geschlossenen Gehaeuse (2) eingebaut sind, dass der Loetkolbenhalter (3) eine mit dem Gehaeuse (2) mechanisch verbundene, im wesentlichen ringsum geschlossene Kammer (30) hat, in welcher wenigstens die die Heizpatrone enthaltende Loetspitze (41) aufnehmbar und in einer Sollige fixierbar ist, dass ein den Eingriff des Loetkolbens (4) in die Kammer (30) des Loetkolbenhalters (3) ueberwachender Detektor (12) vorgesehen ist und dass die Anschalteinrichtung ein Schaltgeraet (R, r) zum Schliessen und oeffnen des Loetkolben-Betriebsstromkreises zu einem als Betriebsstromquelle dienenden eigensicheren Netzgeraet und eine vom Ausgangssignal des Detektors (12) gesteuerte

Zeitverzögerungsschaltung (70) enthaelt.

Machine translation: (Claim 1) 1 Electric soldering with a soldering iron, which consists of a handle portion, a heater with an electrical heating element containing soldering iron and a supply line, also with the heating element with an operating power source connected Anschalteinrichtung and a holder for releasably holding the heated soldering iron, d indicated that the intrinsically safe execution of the soldering unit (1) the Anschaltenrichtung (2) and are well connected (15) of Loetkolbenzuleitung (5) in a saturated inaccuracies or enclosures (2) installed are that the SOLDERING IRON STAND (3) one with the housing (2) mechanically connected, essentially around a closed chamber (30), in which at least the heater containing tip (41) accommodated in a Sollige fixable is that the intervention of the soldering iron (4) into the chamber (30) of SOLDERING IRON STAND (3) supervising detector (12) is provided and that the Anschalteinrichtung one Schaltgeraet (R, r) for closing and opening the soldering iron operating circuit to one serving as an operating power source intrinsically PSU and the output signal of the detector (12) controlled Zeitverzögerungsschaltung (70) contains.

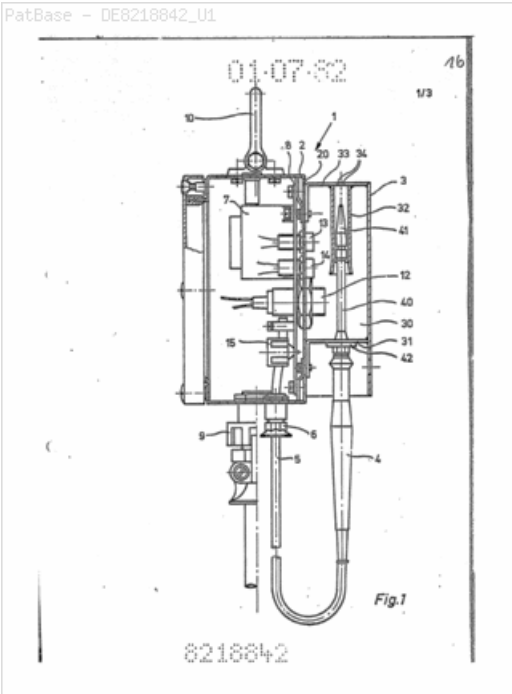
Classifications:

International (IPC 8-9): B23K3/02 (Advanced/Invention);
B23K3/02 (Core/Invention)

International (IPC 1-7): B23K3/00

CPC: B23K3/027

European: B23K3/02G



Family:

Publication number	Publication date	Application number	Application date
DE8218842 U1	19830311	DE19820018842U	19820701

Priority:

DE19820018842U 19820701

Probable Assignee: GUTH HEINRICH 4600 DORTMUND DE

Assignee(s): GUTH HEINRICH 4600 DORTMUND DE

9) Family number: 42552474 (CN201105353Y)

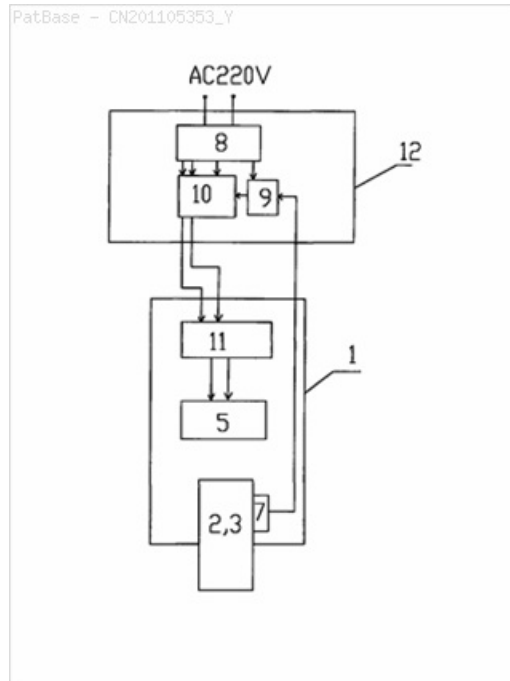
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Title: Low-radiation high-frequency induction-heating weld bench

Abstract: The utility model relates to a low-E and high-frequency induction heating welding platform, comprising a casing of the welding platform, a high-frequency power supply circuit, a temperature control circuit, a high-frequency drive circuit and a high-frequency induction heating soldering iron connected with a high-frequency screening wire. The high-frequency drive circuit is arranged at a handle of the soldering iron; the conductor is the high-frequency screening wire; a soldering iron tip is arranged at the outer end of the handle of the soldering iron; a soldering iron mouth is sleeve-jointed with the soldering iron tip; a high-frequency induction coil and a high-frequency magnet are arranged in the handle; a high-frequency magnet comprises a magnetic ring, a back cover arranged at the internal end of the magnetic ring and a magnetic core arranged at the center of the magnetic ring; the internal end of the magnetic core is connected with the back cover; the high-frequency induction coil winds the magnetic core and is connected with the high-frequency drive circuit; the internal end of the soldering iron tip and the outer end of the magnetic core are relatively fixed at the outer end of the handle. Compared with ordinary high-frequency induction welding platform, the welding platform has the advantages of small heat inertia, high efficiency, fast warming changing speed and small electromagnetic interference; therefore, the welding platform can be widely used for producing various electronic products.

Classifications:

International (IPC 8-9): B23K3/03 B23K3/047 (Advanced/Invention);
B23K3/02 B23K3/04 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN201105353 Y	20080827	CN200720182153U	20071024

Priority:

CN200620154596U 20061211 CN200720182153U 20071024

Probable Assignee:

DEQIANG JING

Assignee(s): (std):

DEQIANG JING

Assignee(s):

JING DEQIANG

Inventor(s): (std):

DEQIANG JING

Inventor(s):

JING DEQIANG

10) Family number: 64117023 (CN205702774U)

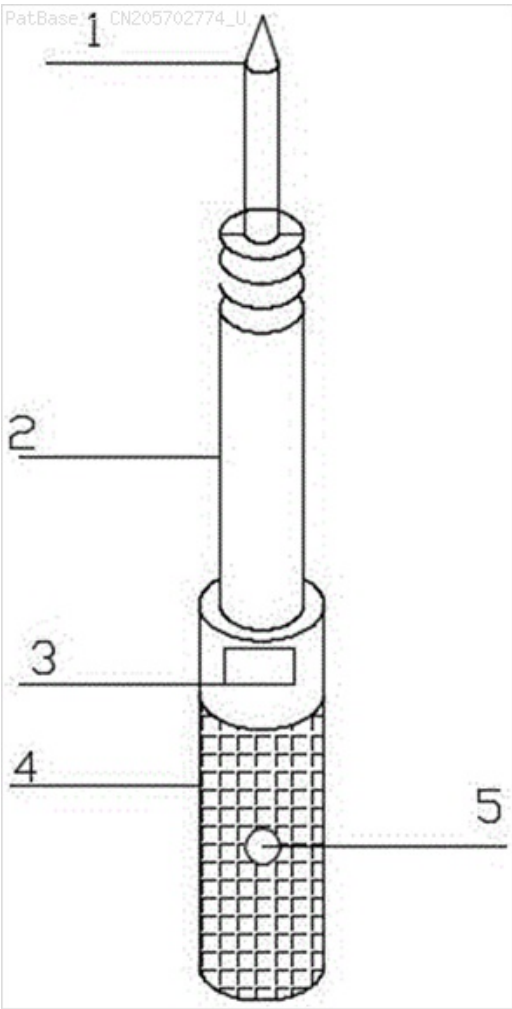
© PatBase

Title: ELECTRIC IRON

Abstract: The utility model discloses a the utility model provides a pair of electric iron, include and constitute electric iron body, characterized by by handle, connecting rod and soldering iron: being equipped with the flatiron core in the soldering iron and taking the temperature controller of magnet formula, the rear end of soldering iron is the hollow, and the soldering iron surface has plated the one deck protective layer, and the soldering iron cup joints with connecting rod magnetism, and the connecting rod is hollow structure, is equipped with control circuit, motor, fan and resistance wire in the connecting rod, and on the connecting - rod shank line was placed in to the motor, motor shaft was connected with the fan, and fan the place ahead is placed in to the resistance wire, handle cover is in the connecting rod rear end, and the handle surface is equipped with temperature display screen and control switch, and the temperature display screen is connected with temperature controller through the wire, and control circuit passes through the wire with temperature controller and control switch and is connected, and motor and resistance wire are connected with control circuit, use this utility model's electric iron to generate heat rapidly, can show the temperature in real time, blows off hot -blastly, and while portable operates reducible potential safety hazard safely.

Classifications:

International (IPC 8-9): B23K3/03 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205702774 U	20161123	CN201620379029U	20160501

Priority:

CN201620379029U 20160501

Probable Assignee:	DUANMU HUIJUAN
Assignee(s): (std):	DUANMU HUIJUAN
Inventor(s): (std):	DUANMU HUIJUAN

11) Family number: 23093925 (FR1301663A)

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Title: FER A SOUDER ELECTRIQUE A TEMPERATURE REGLEE SOLDERING IRON ELECTRIC SET TEMPERATURE (Machine translation)

Abstract: Source: FR1301663A [FR] (Claim 1) 1. L'enroulement de chauffage du fer a souder est enroule en deux sens opposes, suivant le type bifilaire, dans lequel les champs produits se compensent mutuellement;

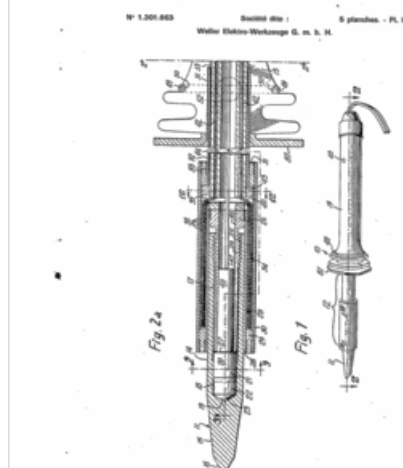
Machine translation: (Claim 1) 1. The heating coil of the soldering iron is wound in two opposite directions, as the wire type, in which the fields offset each other products

Classifications:

International (IPC 8-9): B23K3/03 (Advanced/Invention);
B23K3/02 (Core/Invention)

CPC: B23K3/033

European: B23K3/03H

**Family:**

Publication number	Publication date	Application number	Application date
FR1301663 A	19620817	FR19610874032	19610922

Priority:

FR19610874032 19610922

Probable Assignee: WELLER ELEKTRO WERKZEUGE GMBH**Assignee(s):** (std) WELLER ELEKTRO WERKZEUGE GMBH**12) Family number: 41449859** (CN200977583Y)

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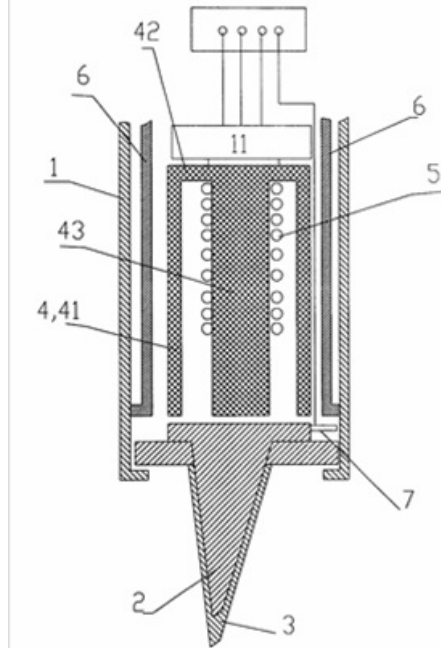
Title: High-frequency sensing quick heating electric iron

Abstract: A high frequency induction quick thermoelectricity iron, which comprises a handle, a soldering copper, a soldering copper nozzle covered outside the soldering copper, a high frequency induction coil and a high frequency power source. A high frequency magnet is equipped in the handle, the high frequency magnet comprises a magnetism link, a bottom cover arranged on the inner end of the magnetism link, and a magnetism link columnar magnetic core, the magnetic core inner end is connected on the bottom head, the soldering copper inner end and the magnetic core outer end are mutually opposite and are fixed on the head of the handle, the high frequency induction coil entangles on the magnetic core and is connected with the high frequency power source. A stainless steel magnetism separating wrap is clamped between the handle endophragm and the high frequency magnet. The high frequency power source drive electric circuit is located in the handle. Compared with the ordinary electric iron or the welding table, the utility model is characterized in that the thermal lag is small, the efficiency is high, the temperature elevating and returning speed is quick, moreover, the electromagnetic interference is greatly reduced, the electronic primary device cannot be damaged, and can be widely used in all kinds of electronic product production.

Classifications:**International (IPC 8-9):** B23K3/03 B23K3/047

B23K3/08 (Advanced/Invention);

B23K3/00 B23K3/02 B23K3/04 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN200977583 Y	20071121	CN200620154597U	20061211

Priority:

CN200620154597U 20061211

Probable Assignee:

JING DEQIANG

Assignee(s): (std):

JING DEQIANG

Inventor(s): (std):

JING DEQIANG

Inventor(s):

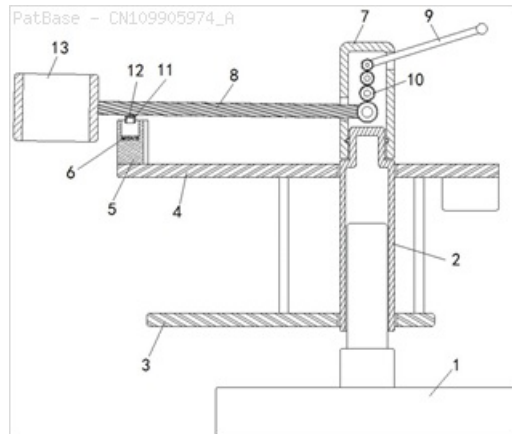
DEQIANG JING

13) Family number: 74749104 (CN109905974A)

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Title: INTEGRATED CIRCUIT BOARD REWORK DEVICE FOR IMPROVING DESOLDERING SAFETY

Abstract: The invention relates to the technical field of integrated circuits and discloses an integrated circuit board rework device for improving desoldering safety. The rework device comprises a base, wherein the top of the base is movably mounted with a lifting platform, the outer side of the lifting platform is fixedly connected with a positioning plate and a limit plate, a lower seat is fixedly connected to the top of the limit plate, the top of the lifting platform is rotatably sleeved with a rotating sleeve, and the inner part of the rotating sleeve is rotatably connected with a connecting plate and a handle. The integrated circuit board rework equipment for improving desoldering safety avoids the damage brought by electric soldering iron to the main body of the circuit board by positioning the electric soldering iron through the positioning plate and limiting the electric soldering iron through the limit plate and the lower seat, realizes fine-tuning operations through the gear set such that the lower seat and the socket guide and limit the horizontal movement of the electric soldering iron, and enhances the stability during the horizontal movement of the electric soldering iron by mounting magnets on the lower seat and the socket. At the same time, the magnet also has an automatic reset function, and the operation is simple and quick.

Classifications:**International (IPC 8-9):** H05K3/22 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
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CN109905974 A	20190618	CN201910296885	20190412
CN109905974 B	20200410	CN201910296885	20190412

Priority:

CN201910296885 20190412

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Inventor(s): (std): JUAN PEIJUN ; YANG DONGSHENG

14) Family number: 22394100 (US2825963A)

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Title: CAN OPENER

Abstract: (Claim 1) 1. In a-n automatic can opener, in combination: a drive wheel; a cutter movable to an inoperative open position remote from said drive wheel to permit the can bead to be set on said drive wheel, and to an operative closed position close to said drive wheel to retain said bead, and to cut into the associated can lid; manual means for moving said cutter to either position; lid lifting means independent of said cutter moving means and movable up into an upper position and down into a lower position of operative relationship to the lid of an unopened can retained by said drive wheel and cutter; a motor operatively connected to actuate said drive wheel; and an automatic motor control means actuated by movement of said lid lifting means into operative position for connecting said motor to a source of power.

Classifications:

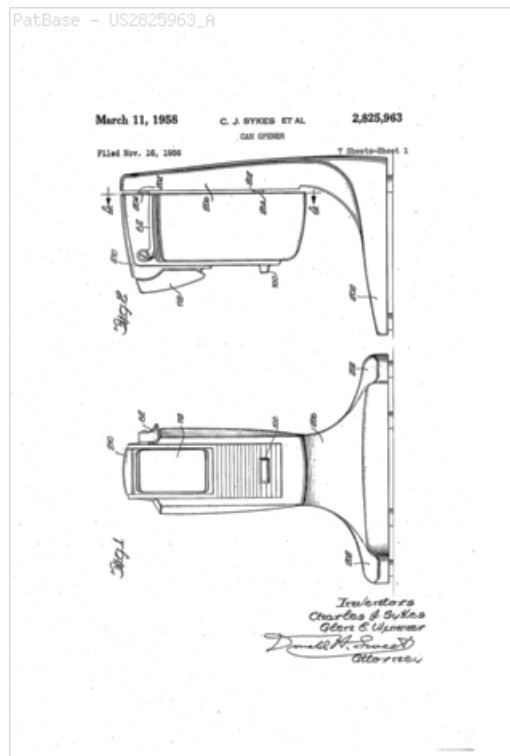
International (IPC 8-9): B67B7/70 (Advanced/Invention); B67B7/00 (Core/Invention)

International (IPC 1-7): B67B7/38

CPC: B67B7/38

European: B67B7/38

US: 30/403 30/410



Family:

Publication number	Publication date	Application number	Application date
US2825963 A	19580311	US19560622552	19561116

Priority:

US19560622552 19561116

Probable Assignee: SYKES CHARLES J

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15) Family number: 56916346 (CN203711134U)

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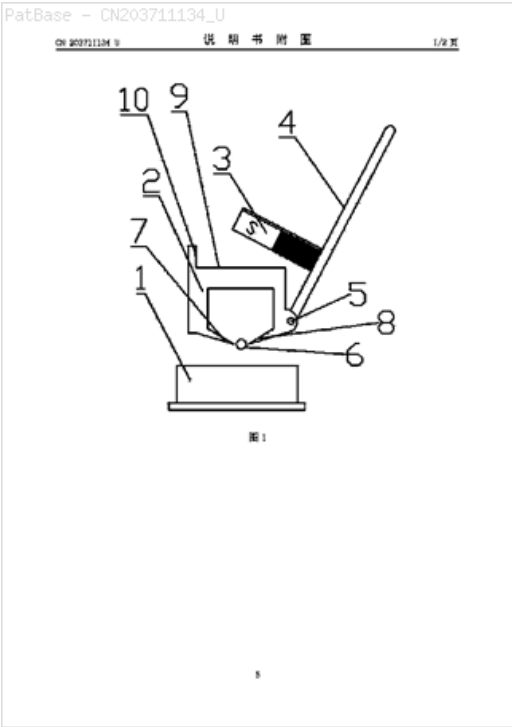
Title: DEVICE FOR REMOVING DUST FROM WIRE DRAWING EQUIPMENT

Abstract: The utility model provides a device for removing dust from wire drawing equipment. The device comprises a dust removing body and a dust receiving box, wherein the dust removing body is made of a soft magnetic material and is easy to magnetize and demagnetize, the dust removing box is magnetized through contact with a magnet, and is demagnetized through separation from the magnet and the dust removing box, a left tooth and a right tooth are arranged at the lower end of the dust removing box, a channel is arranged between the left tooth and the right tooth, and is used for enabling a soldering wire to pass through, an operating handle is arranged on the dust removing box, and is connected to the dust removing box through a rotating shaft, the magnet is fixed on the operating handle, and the dust removing box is magnetized through contact with the magnet or

is demagnetized through the separation from the magnet by means of rotation of the operating handle. According to the device, iron powder can be removed, and a working environment is well improved; lubricating powder is mixed in the iron powder, and thus the content of the lubricating powder in air can be greatly reduced; the working environment is effectively improved, the work positivity of workers is improved; the device is low in use cost, good in practicability, simple in operation, economic and cost-saving.

Classifications:

International (IPC 8-9): B03C 1/00 B21C 1/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203711134 U	20140716	CN201320878133U	20131223

Priority:

CN201320878133U 20131223

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