

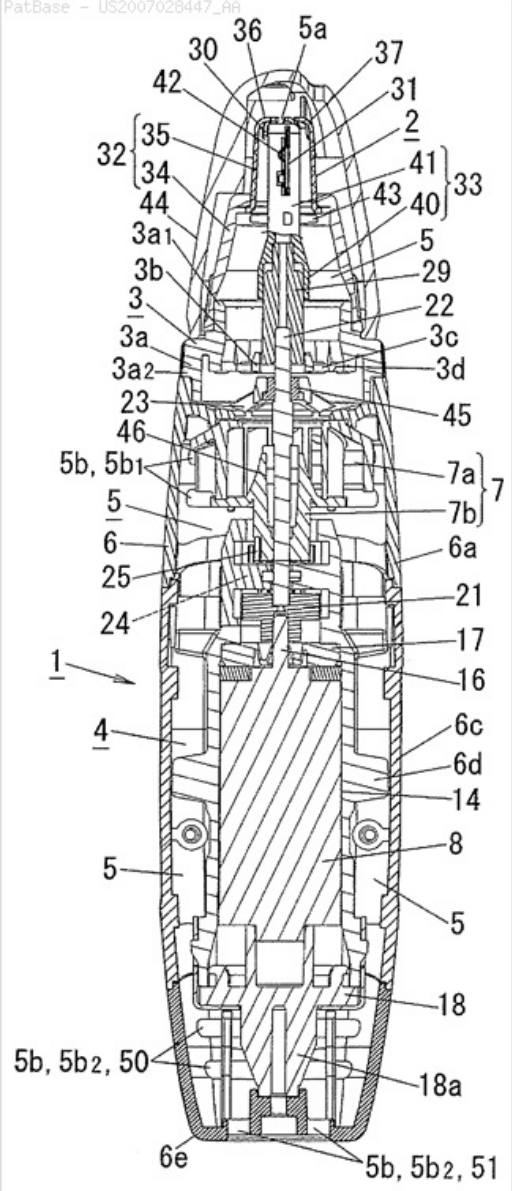
Search history

Search 1: STAC=(nose and cutter and slot) (Results 420)
Search 2: STAC=(nose and cutter and hair) (Results 125)
Search 3: STAC=(nose and cutter and hair and motor) (Results 41)

1) Family number: 34192831 (US2007028447A)
Title: NOSE HAIR CUTTER

Abstract:

Source: US2007028447A To provide a nose hair cutter, comprising a blade configured to cut nose hair, a motor which drives a movable blade of the blade, and a fan which is driven by the motor to suck pieces of the nose hair cut by the blade into a body.



International class (IPC 8-9): A45D26/00 B26B19/00 B26B19/14 B26B19/18 B26B19/28 B26B19/38 B26B19/44 (Advanced/Invention);
A45D26/00 B26B19/00 B26B19/14 B26B19/38 (Core/Invention)
CPC: B26B19/148 B26B19/44
European class: B26B19/14E B26B19/44
US class: 30/133 30/29.5 30/29.500P 30/41.5
Family:

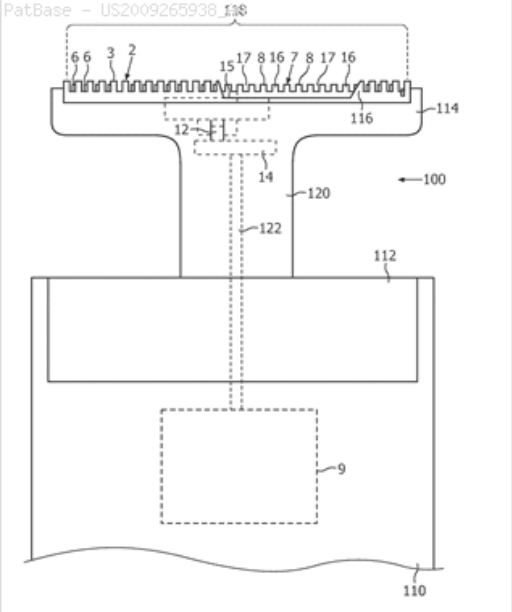
Publication number	Pub. date	Application number	App. date
AT478755 E	20100915	AT20060015685T	20060727
CN100418710 C	20080917	CN200610108479	20060804
CN1907656 A	20070207	CN200610108479	20060804
CN200977660 Y	20071121	CN200620131104U	20060804
DE602006016380 D1	20101007	DE200660016380T	20060727
EP1749622 A2	20070207	EP20060015685	20060727
EP1749622 A3	20071024	EP20060015685	20060727
EP1749622 B1	20100825	EP20060015685	20060727
JP2007044081 A2	20070222	JP20050228688	20050805
JP4203670 B2	20090107	JP20050228688	20050805
KR100775198 B1	20071112	KR20060072937	20060802
KR20070016994 A	20070208	KR20060072937	20060802
US2007028447 AA	20070208	US20060461601	20060801
US7874073 BB	20110125	US20060461601	20060801

Priority: JP20050228688 20050805; KR20060072937 20060802;

Cited documents: US5075971 A, US5012576 A, US3699652 A, US3369294 A, US3054179 A, US2899743 A, US2371535 A, US2267626 A, US2223410 A, US2129559 A, KR200310081 Y1, KR200310081, JPP2005228688, JP9154626 A2, JP8066569 A2, JP7313244 A2, JP7051472 A2, JP4080402 A2, JP2004089731 A2, JP2000342327 A2, JP2000342327, JP0751472, JP0480402 U,
Assignee(s): (std): MATSUSHITA ELECTRIC WORKS LTD ; PANASONIC CORP ; PANASONIC ELEC WORKS CO LTD
Assignee(s): PANASONIC ELECTRIC WORKS CO ; PANASONIC ELECTRIC WORKS CO LTD
Inventor(s): (std): HISAO NAKAGAWA ; HISAO OGAWA HITOSHI NAKAGAWA ; HITOSHI OGAWA ; NAKAGAWA HISAO ; OGAWA HITOSHI ; HISAO KOGAWA NISHI NAKAGAWA
Inventor(s): OGAWA HITOSHI NAKAGAWA HISAO ; KOGAWA NISHI NAKAGAWA HISAO
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

2) Family number: 41007793 (US2009265938A)
Title: HAIR-CLIPPING DEVICE

Abstract:
Source: US2009265938A The invention is directed to a hair-clipping device (100) comprising: a main body (110), main hair-clipping means (112) supported by the main body (110), and additional hair-clipping means (114) having an active hair-clipping portion (116) extending over a longitudinal dimension (118) and being supported by supporting means (120). In accordance with the invention the supporting means (120) at least in one predetermined working position of the active hair-clipping portion (116) extend only over a part of the longitudinal dimension (118). Thereby at least one free end portion of the active hair-clipping portion exists that can, for example, be easily inserted into the nose to remove nose hair. However, the additional hair-clipping means (114) are preferably not limited to this function, but can also be used, for example, for conventional hair trimming etc.



International class (IPC 8-9): A45D26/00 B26B19/00 B26B19/06 B26B19/10 B26B19/20 B26B19/28 (Advanced/Invention); A45D26/00 B26B19/00 B26B19/04 (Core/Invention)
CPC: B26B19/06 B26B19/10 B26B19/102 B26B19/105
European class: B26B19/06 B26B19/10 B26B19/10B B26B19/10D
US class: 30/29.5 30/34.1 30/34.100P 30/42 30/42S 30/43 30/43.92 30/43S
Family:

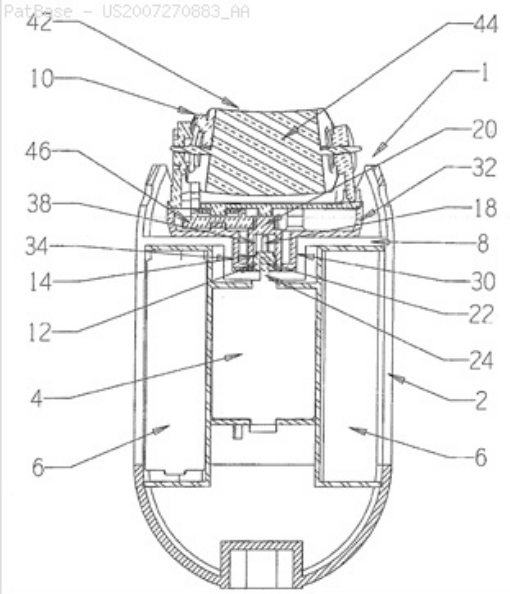
Publication number	Pub. date	Application number	App. date
CN101472715 A	20090701	CN200780022828	20070615
CN101472715 B	20120125	CN200780022828	20070615
EP2035196 A2	20090318	EP20070766760	20070615
JP2009540910 T2	20091126	JP20090516028T	20070615
JP2014158939 A2	20140904	JP20140076875	20140403
JP5820097 B2	20151124	JP20090516028T	20070615
JP5877865 B2	20160308	JP20140076875	20140403
US2009265938 AA	20091029	US20070305106	20070615
US8341845 BB	20130101	US20070305106	20070615
WO07148270 A2	20071227	WO2007IB52280	20070615
WO07148270 A3	20080228	WO2007IB52280	20070615

Priority: EP20060115636 20060619; EP20070766760 20070615; WO2007IB52280 20070615; JP20090516028 20070615; JP20090516028T 20070615;

Cited documents: WO05002806 A1, US7536787 BB, US7503117 BB, US7111398 BA, US6604287 BB, US5701673 A, US5054199 A, US4980973 A, US4916814 A, US4521962 A, US4521962, US4393585 A, US4085503 A, US2783533 A, US2783533, US2253737 A, US2127881 A, US2098849 A, US2011094110 AA, US2010011587 AA, US2008216329 AA, US02783533, JP63206274 A2, JP63206274, JP6175264 U, JP61075264 U, JP5722785, JP57022785 A2, JP57022785, JP5657477, JP56057477 A2, JP56057477, JP3045934 U, JP3045934 U, JP200552466, JP2005245749, JP2005237936 A2, JP2005052466, JP2004561 U, JP2004561 U, JP0204561 U, EP1366870 A1, DE4039681 A1,
Assignee(s): (std): JANNY MICHAEL ; KONINK PHILIPS NV ; KONINKL PHILIPS ELECTRONICS NV ; KONINKL PHILIPS NV ; WADSACK RENE ; OBERMANN WOLFGANG ; ROYAL DUTCH PHILIPS ELECTRONICS LTD
Assignee(s): PHILIPS KONINKLL NV ; PHILIPS ELECTRONICS KONINKLL NV ; KONINKLIJKE PHILIPS ELECTRONICS N V ; KONINKLIJKE PHILIPS NV ; PHILIPS ELECTRONICS N V KONINKLL
Inventor(s): (std): WOLFGANG OBERMANN ; RENE WADSACK ; MICHAEL JANNY ; WADSACK RENE ; OBERMANN WOLFGANG ; JANNY MICHAEL
Designated states: AE AG AL AM 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 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 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

3) Family number: 32711597 (US2007270883A)
Title: APPARATUS FOR RECEIVING INTERCHANGEABLE GROOMING UNITS
Abstract:

Source: US2007270883A An apparatus for receiving operationally powering units interchangeable grooming units. The apparatus comprising a casing, a motor, attachment means for allowing the grooming units to be releasably attached to the casing and mounting means for allowing the grooming units to be driven by the motor. The mounting means comprise a shaft with an end portion having a protrusion located eccentrically on the end portion. The mounting means are adapted to enable the grooming units with accordingly adapted receiving means to carry out a rotational movement and/or a linear movement without gear arrangements in the receiving means of the grooming unit.



International class (IPC 8-9): A45D26/00 A45D29/05 A61B17/50 (Advanced/Invention);
A61B17/50 (Core/Invention)
International class (IPC 1-7): A45D26/00 A45D29/05
CPC: A45D26/00 A45D26/0023 A45D29/05 A45D2026/0095 B26B19/26
European class: A45D26/00 A45D29/05 B26B19/26 K45D26/00F K45D26/00U6
US class: 132/75.8 606/133 606/133P
Family:

Publication number	Pub. date	Application number	App. date
DE602004045696 D1	20141002	DE200460045696T	20040906
EP1793701 A1	20070613	EP20040822277	20040906
EP1793701 B1	20140820	EP20040822277	20040906
US2007270883 AA	20071122	US20040574073	20040906
US8171942 BB	20120508	US20040574073	20040906
WO6027641 A1	20060316	WO2004IB03023	20040906

Priority: EP20040822277 20040906; WO2004IB03023 20040906;

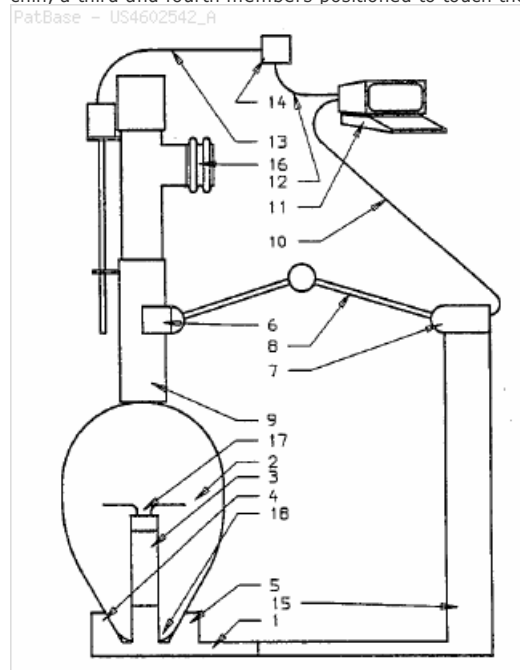
Cited documents: WO03079845 A2, US6277129 BA, US5611804 A, US4030573 A, US3747594 A, US3260542 A, US2005005453 AA, US2003102002 AA, US2002054723 AA, EP0408095 A1, CH662302,
Assignee(s): (std): EPILADY 2000 LLC ; PORAN YEHUDA
Assignee(s): EPILADY
Inventor(s): (std): PORAN YEHUDA
Designated states: AE 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 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

4) Family number: 5074517 (US4602542A)

Title: AUTOMATIC HAIR CUTTING APPARATUS

Abstract:

Source: US4602542A An automatic **hair** cutting apparatus comprises a **hair cutter**, **hair cutter** control mechanism for adjusting the cut length, a frame for holding the human head in a specific fixed position, a robot arm coupled to the **hair cutter** and to the frame for positioning the **hair cutter** at specific positions on the human head, and a computer coupled to the **cutter** control mechanism and to the robot arm for controlling the **hair cutter** position and length according to a desired haircut style. The **hair cutter** comprises a vacuum source, a **cutter** tube with one end opening coupled to the vacuum source and another end opening having powered blades that do not obstruct the air flow and impart cutting action to the entire cross section of the **cutter** tube, a stretcher tube that can slide over the **cutter** tube for changing the length of the cut, a stepper **motor** with threaded shaft connected to the **cutter** tube and the stretcher tube for adjusting the length of the cut. The frame comprises a first member with a notch at one end positioned to fit over the **nose** bridge of the human head, a second member positioned to touch the front of the chin, a third and fourth members positioned to touch the sides of the jaws, and a fifth member positioned to touch the underside of the chin.



International class (IPC 8-9): B26B19/00 (Advanced/Invention);
B26B19/00 (Core/Invention)

International class (IPC 1-7): B26D5/30

CPC: B26B19/00 B26B21/4081 Y10T83/155 Y10T83/164

European class: B26B19/00

US class: 132/214 132/45R 30/133 30/202 83/71 83/75.5 83/76.2

Family:

Publication number	Pub. date	Application number	App. date
US4602542 A	19860729	US19840593644	19840326

Priority: US19840593644 19840326;

Cited documents: US4314405 A, US4235472 A, US4133235 A, US3828377 A, US3413985 A, US1238061 A,

Assignee(s): (std): NATRASEVSCHI ALFRED

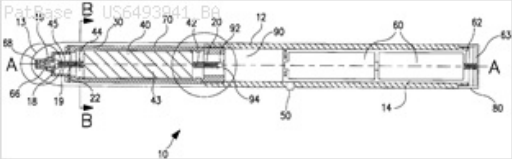
Inventor(s): (std): NATRASEVSCHI ALFRED

PatBase PDF Export - Page: 6 06/02/2018

6) Family number: 23302164 (US6493941B)
Title: Motor-driven razor

Abstract:

Source: US6493941B A foil-type electric razor includes a coaxial motor and cutter. The coaxial relationship between the motor and the cutter permits a simplified suspension and drive assembly. The driven end of the cutter is supported and driven by a flexible drive shaft connected to the motor shaft. The opposite end of the cutter is supported for rotation by a flexible support shaft extending from the cutter to a bearing mounted accessory drive stud. Both the drive shaft and support shaft are constructed from coil springs. The coil spring shafts effectively combine the suspension, drive and support functions that in the prior art required multiple components. An optional nose hair trimmer may be driven by the flexible support shaft.



International class (IPC 8-9): B26B19/16 (Advanced/Invention);
B26B19/14 (Core/Invention)
International class (IPC 1-7): B26B B26B19/14 B26B19/16 B26B19/28
CPC: B26B19/16
European class: B26B19/16
US class: 30/43.6 30/436
Family:

Publication number	Pub. date	Application number	App. date
CN2492357 Y	20020522	CN20012033585U	20010817
DE20209999 U1	20020829	DE20022009999U	20020628
HK1049258 A2	20030411	HK20020101344	20020222
US6493941 BA	20021217	US20010899678	20010705

Priority: US20010899678 20010705;

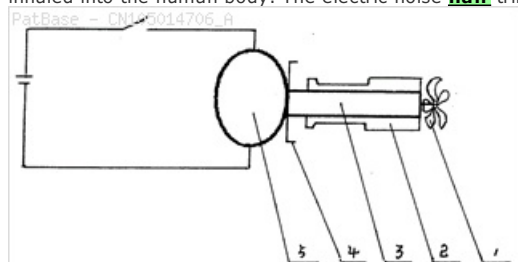
Cited documents: US4521962 A, US2577383 A, US2307303 A, GB2318722 A1, GB1406830 A,
Assignee(s): (std): GOOD NATURE CO LTD ; GOOD NATURE COMPANY LTD ; HAIYUN CO LTD
Assignee(s): GOOD NATURE COMPANY LTD SHATIN ; HAIYUN CO
Inventor(s): (std): WONG YING MAN JOHN ; YINGMIN HUANG ; HUANG YINGMIN

7) Family number: 60703178 (CN105014706A)

Title: ELECTRIC NOSE HAIR TRIMMER WITH SUCTION FUNCTION

Abstract:

Source: CN105014706A The invention provides an electric nose hair trimmer with a suction function. The electric nose hair trimmer with the suction function is beneficial to the health of people and simple in structure. The electric nose hair trimmer with the suction function is composed of a motor, a base plate, a hair trimming cutter and a fan. The fan is installed at the tail end of a rotating shaft of the motor and located behind the hair trimming cutter. When the electric nose hair trimmer with the suction function is used, the rotating shaft of the motor drives the hair trimming cutter to rotate to drive blades of the fan to rotate along with the hair trimming cutter. Short cut-off nose hair is blown to the base plate due to rotation of the fan, and it is avoided that the short cut-off nose hair is blown by the rotating hair trimming cutter into the nares and inhaled into the human body. The electric nose hair trimmer with the suction function is simple in structure and convenient to use.



International class (IPC 8-9): B26B19/44 (Advanced/Invention)

Family:

Publication number	Pub. date	Application number	App. date
CN105014706 A	20151104	CN201510431848	20150721

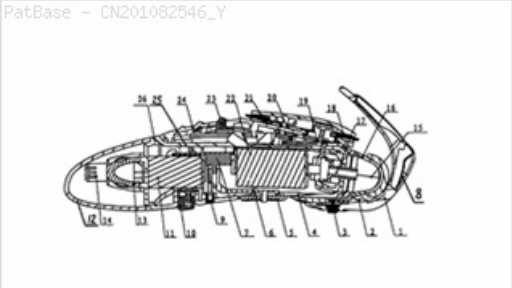
Priority: CN201510431848 20150721;

Assignee(s): (std): BAISE UNIV ; UNIV BAISE

Inventor(s): (std): HUANG XIANTUN

8) Family number: 42062939 (CN201082546Y)
Title: Multifunctional electric pulling hair clippers

Abstract:
Source: CN201082546Y The utility model discloses a multi-functional electric clipper applied to the haircut industry, which overcomes the default of the sole function of the product in the prior art. The electric clipper comprises a machine body formed by combining an upper casing and a lower casing, a charging battery, a motor, a hair clipper head swing frame and a hair clipper head component are arranged in the machine body, a limit comb is arranged at the front end of the machine body, and a shaving head and a shaving mesh enclosure are arranged at the head part of the machine body; a micro motor is arranged at the tail part of the machine body, and is connected with the charging battery; a button switch is arranged at the lower casing part corresponding to the micro motor, a nose hair remover cutter head component is arranged at the shaft part of the micro motor, a nose hair remover cutter head is arranged at the end part of the nose hair remover cutter head component, and a nose hair remover hood is covered on the nose hair remover cutter head component and the nose hair remover cutter head. A temple trimming tool set is arranged at the other end of the machine body, and is fixed on the upper casing through a temple trimming tool rest. The product integrates haircut, temple trimming, shaving and nose hair removal into a whole, and is convenient for being carried during a journey or a business trip.



International class (IPC 8-9): B26B19/26 B26B19/28 (Advanced/Invention);
B26B19/00 (Core/Invention)
Family:

Publication number	Pub. date	Application number	App. date
CN201082546 Y	20080709	CN200720113977U	20070901

Priority: CN200720113977U 20070901;

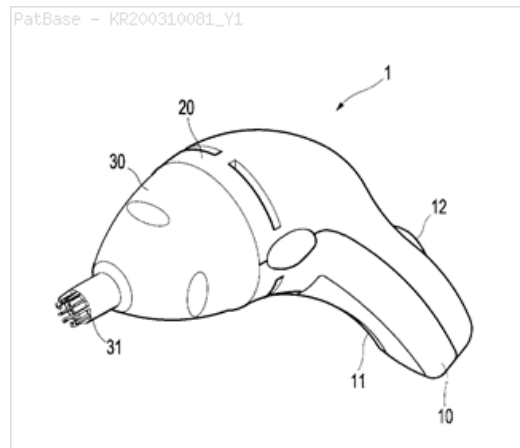
Assignee(s): (std): DA ZHANG
Assignee(s): ZHANG DA
Inventor(s): (std): DA ZHANG
Inventor(s): ZHANG DA

9) Family number: 47121405 (KR200310081Y)

Title: Nose hair cut (Machine translation)

Abstract:

Source: KR200310081Y Another **hairs** grow in the present design is not exposed to the outside considering that rotates inside the **nose hair** cut at the same time as the **cutter** is rotated by a **motor** to the fan, so that a suction force generated can reject the carved binary **hair** can be easily sucked into the collected, as well as to reject the carved binary **nose hair** is collected can easily clean can be easily separated so that relates to a **nose hair** cutting, rotary **cutter** by rotating the **motor** in the **nose hair** cut **hair** clippings of a patient, wherein the handle portion and the body of the **nose hair** cut the head portion, the handle portion, the battery cover that can be accommodated, and the switch knob configuration, and the head portion includes a **motor** and fan and the geolreummang and configure the head portion distal end is fixed to the inner side of the protective live provided on the inner side, can be provided with a rotary **cutter** is detachably provided in the suction type **hair** can be achieved by configuring the cutting, it is devised. **Nose hair**, cut, **nose hair** cut



International class (IPC 8-9): B26B19/00 (Advanced/Invention);
B26B19/00 (Advanced/Non-invention)

International class (IPC 1-7): B26B19/00

CPC: B26B19/00 B26B19/148 B26B19/44

Family:

Publication number	Pub. date	Application number	App. date
KR200310081 Y1	20030408	KR20020029506U	20021002

Priority: KR20020029506U 20021002;

Assignee(s): HONG SEONG WOON

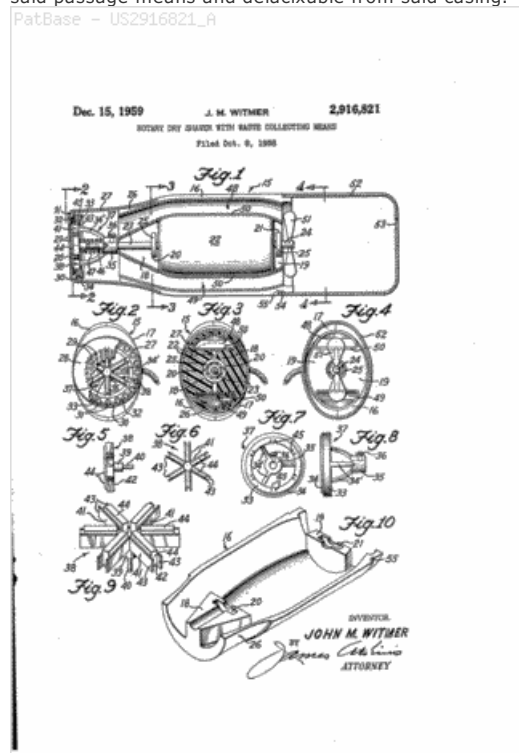
10) Family number: 22201780 (US2916821A)

Title: ROTARY DRY SHAVER WITH WASTE COLLECTING MEANS

Abstract:

Source: US2916821A (Claim 1) 1. A **hair** clipper comprising a casing, a **motor** mounted within the casing and having forward and rear armature shaft extensions, a nosecap for the forward end of the casing including a forward shear plate which is apertured, said nosecap having a forward annular rounded corner wall adapted to serve as a ball bearing race, ball bearings disposed within the nosecap and engaging said race, an annular ball bearing retainer disposed within the nosecap rearwardly of the ball bearings and said shear plate and having an annular recess adapted to receive said ball bearings, means interconnecting said retainer and the forward armature shaft extension so that said retainer rotates with said extension, a **cutter** blade unit including a plurality of circumferentially spaced radial **cutter** blades arranged within the nosecap, said **cutter** blades having their forward sides slidably engaging said apertured shear plate, said unit keyed to the ball bearing retainer for rotation therewith but being axially adjustable relative to said retainer, resilient means engaging the cutter blade unit and urging the same toward said shear plate, said casing having longitudinal passage means extending there through outwardly of said **motor** and communicating with the interior of the nosecap, a suction fan secured to the rear armature shaft extension and adapted to draw air through said apertured shear plate and through the nosecap and said passage means, and a **hair** collection receptacle carried by the rear end of said casing and communicating with said passage means and detachable from said casing.

PatBase - US2916821_A



International class (IPC 8-9): B26B19/44 (Advanced/Invention);

B26B19/38 (Core/Invention)

International class (IPC 1-7): B26B19/44

CPC: B26B19/44

European class: B26B19/44

US class: 30/133 30/41.5 30/43.2 30/43.6

Family:

Publication number	Pub. date	Application number	App. date
US2916821 A	19591215	US19580766028	19581008

Priority: US19580766028 19581008;

Cited documents: US2824367 A, US2598212 A, US2518181 A, US2245917 A,

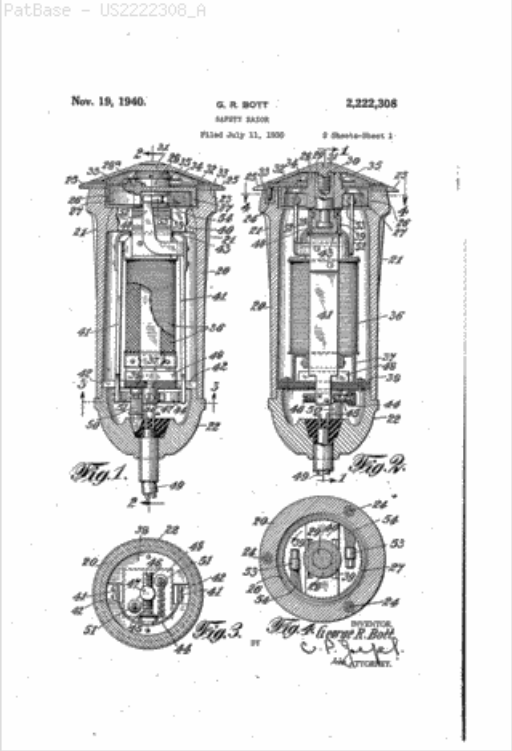
Assignee(s): (std): WITMER JOHN M

Inventor(s): (std): WITMER JOHN M

11) Family number: 21359353 (US2222308A)
Title: SAFETY RAZOR

Abstract:

Source: US2222308A 1. In a motor-actuated razor, curved comb and razor cutter members mounted in parallel relation and having cooperative radial edge teeth in shearing contact on adjacent sides, the teeth of at least one of said members being cut on a transverse spiral and the teeth of both of said members being transversely beveled in continuity, to produce cooperative shearing edges on teeth which diminish in thickness outwardly thereof, with the free radial ends of the teeth of the cutter member adjacent the comb having substantially zero thickness.



International class (IPC 8-9): B26B21/00 (Advanced/Invention);
B26B21/00 (Core/Invention)
International class (IPC 1-7): B26B21/00
CPC: B26B21/00
European class: B26B21/00
US class: 30/346.51 30/43.1 30/43.6
Family:

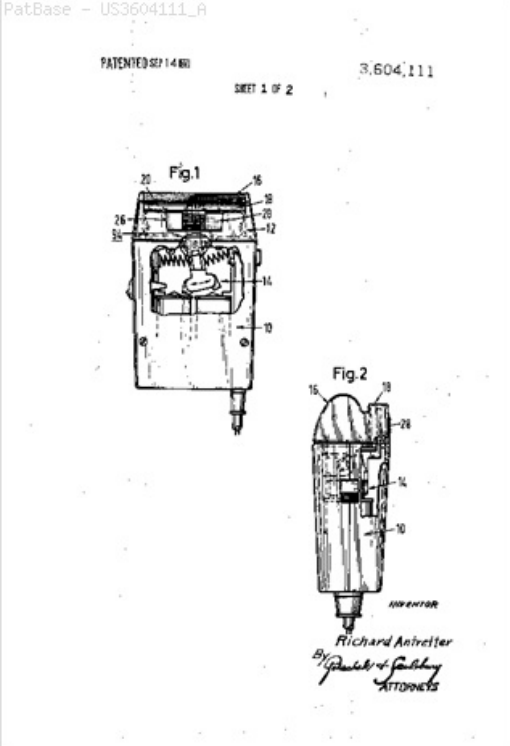
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US2222308 A	19401119	US19360090060	19360711

Priority: US19360090060 19360711;

Assignee(s): (std): TRUST CO STAMFORD ; TRUST COMPANY THE STAMFORD
Inventor(s): (std): TRUST CO STAMFORD ; TRUST COMPANY THE STAMFORD
Inventor(s): COMPANY THE STAMFORD TRUST ; STAMFORD TRUST CO

12) Family number: 152166 (US3604111A)
Title: ELECTRIC SHAVER

Abstract:
Source: GB1192343A 1,192,343. Electric shavers. R. ANTRETTER. 20 Jan., 1969 [1 Feb., 1968], No. 3101/69. Heading B4B. An electric shaver comprises a body housing 10, and a detachable cutter head housing 12 carrying a short-hair cutter head 16 comprising knife blades 22 co-operating with a part-cylindrical screen 20, and is characterized in having a long-hair cutter head unit 18 detachably located alongside the short-hair cutter head 16, the unit 18 comprising blades 82 driven by an oscillated lever 94 to co-operate with an outer comb 70. The unit 18 is retained in a guide well 24 by engagement of portions 54 of leaf springs 36 over wall protrusions 56, a finger piece 28 being provided for removal. An element 76 bearing the blades 82 is held in engagement with the comb 70 by balls 84 acted on by the other ends 52 of the springs 36. The lever 94, formed of resilient material, e.g. plastics, and oscillated by a motor 14, Fig. 2, engages between upstanding lugs 106 formed in the lower web 78 of the element 76. The element 76 may be withdrawn for cleaning, lugs 90, 92 ensuring correct replacement.



International class (IPC 8-9): B26B19/10 B26B19/38 (Advanced/Invention);
B26B19/04 B26B19/38 (Core/Invention)
International class (IPC 1-7): B26B19/00 B26B19/04 B26B19/06 B26B19/10 B26B19/38
CPC: B26B19/10 B26B19/38 B26B19/386
European class: B26B19/10 B26B19/38 B26B19/38D1
US class: 30/34.1
Family:

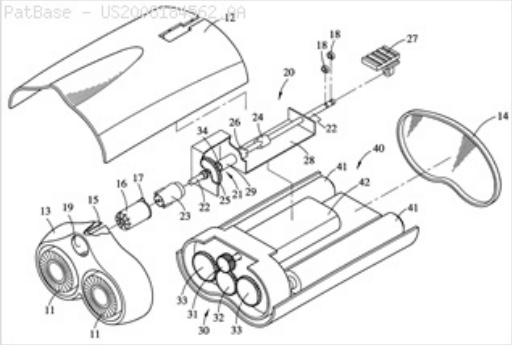
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BE726877 A	19690616		19690115
CH478640 A	19690930	CH19690000327	19690102
DE1678178 A1	19711125	DE19681678178	19680201
FR2001110 A1	19690926	FR19690001876	19690130
GB1192343 A	19700520	GB19690003101	19690120
NL6901550 A	19690805	NL19690001550	19690131
US3604111 A	19710914	US19690791962	19690117

Priority: DE19681678178 19680201; DE1968A058078 19680201;

Cited documents: US3218708 A, US3201178 A, US2198118 A, DE1111062 B, DE1014878 B,
Assignee(s): (std): ANTRETTER RICHARD ; RICHARD ANTRETTER
Inventor(s): (std): ANTRETTER RICHARD ; RICHARD ANTRETTER

13) Family number: 42074918 (US2008184562A)
Title: ELECTRIC SHAVER WITH NOSE HAIR TRIMMER

Abstract:
Source: US2008184562A An electric shaver includes a control unit connected to a gear set, so as to drive the gear set to rotate at least one **cutter** blade set for cutting beard; and a **nose hair** trimmer, which includes a gear mechanism, a central rotary shaft, a **nose hair** blade, and an engaging and disengaging element. The gear mechanism includes a gear wheel meshing with the gear set, and an engaging head connected to and rotating along with the gear wheel. The **nose hair** blade and the engaging and disengaging element are fixedly mounted on the central rotary shaft. When the central rotary shaft is moved forward by a predetermined distance to engage the engaging and disengaging element with the engaging head, the **nose hair** blade on the central rotary shaft is protruded from the electric shaver while rotating to trim **nose hair**.



International class (IPC 8-9): B26B19/00 (Advanced/Invention);
B26B19/00 (Core/Invention)
CPC: B26B19/148
European class: B26B19/14E
US class: 30/34.1 30/341
Family:

Publication number	Pub. date	Application number	App. date
US2008184562 AA	20080807	US20070701546	20070202

Priority: US20070701546 20070202;

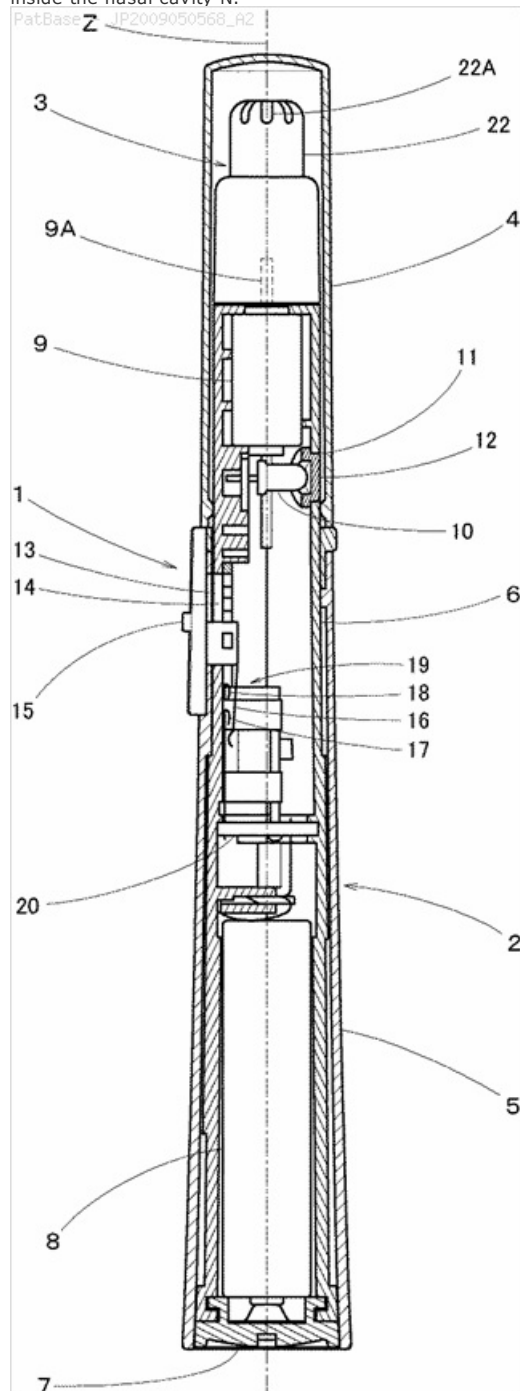
Cited documents: US6212776 BA, US2003126744 AA, US2002065522 AA,
Assignee(s): (std): PI CHIA YU ; PI CHING TIEN
Inventor(s): (std): PI CHIA YU ; PI CHING TIEN

14) Family number: 43104112 (JP2009050568A)

Title: NOSE HAIR CUTTER

Abstract:

Source: JP2009050568A PROBLEM TO BE SOLVED: To provide a **nose hair cutter** allowing a user to sufficiently observe conditions inside the nasal cavity. SOLUTION: The **nose hair cutter** includes a stick-like **cutter** body 2, and a cutting part 3 removably attached to the tip of the **cutter** body 2. A **motor** 9 and a light emitting diode 10 as a light source are built inside the **cutter** body 2. An irradiation direction of light L from the light emitting diode 10 is orthogonal to a central axis line Z of the **cutter** body 2 and the cutting part 3. Thereby, the user moves a side of the **cutter** body 2 near the nasal cavity N and observes conditions of the nasal **hair** inside the nasal cavity N by using a mirror M while illuminating inside the nasal cavity N by the light L from the light emitting diode 10. At this time, it is possible to not only shorten a distance from the nasal cavity N to the light emitting diode 10, but also prevent the interference of the **cutter** body 2 with the mirror M even if the mirror M is moved near to the nasal cavity N. Thereby, a distance from the nasal cavity N to the mirror M is small so as to sufficiently observe conditions of the **nose hair** inside the nasal cavity N.



International class (IPC 8-9): A45D26/00 (Advanced/Invention);
A45D26/00 (Core/Invention)

Family:

Publication number	Pub. date	Application number	App. date
JP2009050568 A2	20090312	JP20070221793	20070828

Priority: JP20070221793 20070828;

Assignee(s): (std): TSUIN BADO KOGYO KK

Assignee(s): TWINBIRD CORP

Inventor(s): (std): KAMATA YOSHIYUKI ; NISHIZAWA HIROSHI ; SAKAI HIROYOSHI

15) Family number: 55049808 (KR200338260Y)

Title: The rounded fillets cutter (Machine translation)

Abstract:

Source: KR200338260Y This is the prescribed intervals round the torso fish innards can cut and cut and cut the circle **cutter** replacement of **Cutter** operation efficiency and cut a round so that you can maximize the fish **cutter** to the **nose** to provide. In other words, this round the fillets to construct gas cutting machine (1) and (2) on the upper part of the torso part round fish, cut (3) commitments at the time, location and cutting edge, Zito also performed at the same time, the rock, and discharge commitments Hopper (4) axis, and the axis of the aforementioned commitment of the hopper (4), (5) there are a number of different commitment on disk space disk (6), (7) and subsequently committed itself by combining disk (6) was formed by the circumference of the kite in the radial type mouth aperture (8) can be put on fish and After the aforementioned commitment, Hopper (4) on the side of the cutting (3) to cut the fish supplied for rotating **cutter** (9) is installed, rotate the **cutter** above a shaft (9) aligns the number of circles on the **cutter** (10), (11) to adjust the axis interval can be fixed, rotating shaft (10) keys (12) on the axial to the keyway (13) with a round **cutter** (11) side-to-side by adjusting the interval boss (14) fixed to the bolt (15) and sat on a rock, and a circular **cutter**, rotary **cutter**, above, (9) (11) to adjust the thickness of the gas (2) on the slide to draw the control so that it can perform the axis of rotation (10) axis installed Bearing housing (16) slide the bracket with the Chang Gung (17) (18) (19) and the bolt on the control panel (19a) can be controlled by the before and after slides, above the axis of rotation (10) to the axis of rotation of the drive transfer (10) part of the gear (20) axis fixed to the gaseous (2) is installed in the lower part of the **motor** (21) powered response associated with gear (22) and gear power transmission and no power to block the expression of engagement to be made, and the aforementioned cutting (3) consists of a circular arc type **cutter** (11) passes through openings that can (24) a number of dog prescribed intervals are formed at the bottom of the scraper (23) And Government (23a) and fixed to the gaseous (2), the head of the cutting part (3) above the exhaust chute (25) and the fillets to be mutually orthogonal exhaust chute (26) is installed, the aforementioned gases (2) is installed in the lower part of the **motor** (21) won the chain on the sprocket coaxial (27) (28) celebrates the commitment of the hopper (4) is installed on the axis of rotation (5) on the chain sprocket (29) and chain (30) driven and linked to, above the axis of the rotating **cutter** (9) installed (10) is connected to the axis of the wayside (31) by installing axis an axis fixed in the chain sprocket (32) and won the coaxial (27) on the chain sprocket (28a) chain (33) the connection shaft (31) rotates the driven and, in the axis of rotation of the above connection axis (31) (11) fixed gear on the shaft (20) and gear can be a corresponding gear Chuck (22) has a fixed axis of rotation to rotate the axis drive on rotating **cutter** (10) (9) can be driven as rotation, this round fish such as parallel cutting and switching can be performed the cut, a means of rotating **cutter** to cut the fish (9) spacing facilitates a quick, easy, fish, even making the **hair** will be separated and the fillets are cut off automatically so that they can be transported to the next machining process to maximize efficiency of cutting the fillets in a large number of effects that can be offered. Round < fillets **cutters** <, cutting Department, Hopper, rotating **cutter**, scraper, disc

International class (IPC 8-9): A22C25/20 (Advanced/Invention)

International class (IPC 1-7): A22C25/20

CPC: A22C25/20

Family:

Publication number	Pub. date	Application number	App. date
KR200338260 Y1	20040113	KR20030033400U	20031024

Priority: KR20030033400U 20031024;

Assignee(s): ASKING MACHINERY CO LTD

PatBase PDF Export - Page: 17 06/02/2018

International class (IPC 1-7): B26B19/42

CPC: B26B19/42

European class: B26B19/42

US class: 30/34.2 30/43.2 30/43.6

Family:

Publication number	Pub. date	Application number	App. date
US2205590 A	19400625	US19370174591	19371115

Priority: US19370174591 19371115;

Assignee(s): (std): BOWMAN HYMAN D

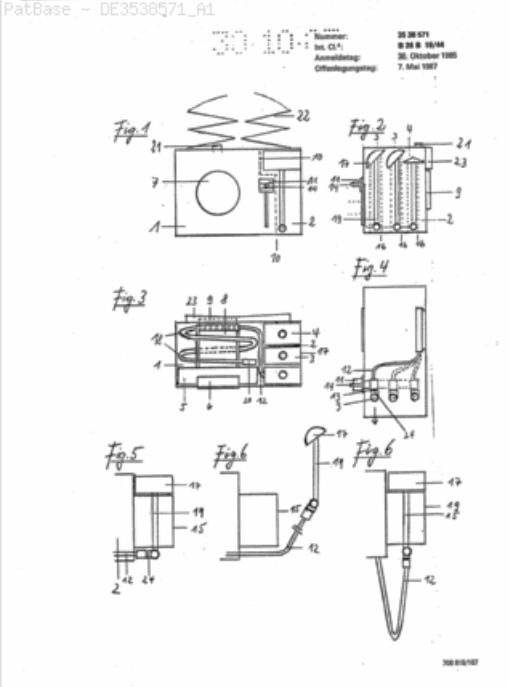
Inventor(s): (std): BOWMAN HYMAN D

17) Family number: 4435310 (DE3538571A1)

Title: Electric dust-sucking razor with plug-in manicure set ELEKTRO-STAUBSAUG-RASIERER MIT STECKTEIL MANIKUER-SET

Abstract:

Source: DE3538571A1 When shaving by means of the electric dust-sucking razor with plug-in manicure set, one of the various assemblies which are optionally available in the unit, e.g. the cutting head fastened to a handle, is pulled out of the unit, which is provided with a dust-sucking device, and the hair dust and cut-off hair which is produced during shaving is sucked off via an air hose. The parts to be moved in the individual assembly e.g. in the cutting head are driven by means of a driving cable which is connected to the air hose. The entire razor does therefore not have to be guided by hand, as is otherwise usually the case: now only a respective assembly, e.g. a cutting head, which is attached to a handle, has to be guided by hand. This obviates the need for complicated cutting head cleaning operations and, when a hair-cutter has been used, for workplace cleaning operations. As shaving is directly in the mouth and nose region, the inspiration of hair dust can only be prevented by use of a dust-sucking device. Assemblies suitable for manicure, e.g. nail-filing etc., can be optionally connected to the unit.



International class (IPC 8-9): A45D29/05 B26B19/44 (Advanced/Invention);
A45D29/00 B26B19/38 (Core/Invention)
International class (IPC 1-7): B26B19/44
CPC: A45D29/05 B26B19/44
European class: A45D29/05 B26B19/44
Family:

Publication number	Pub. date	Application number	App. date
DE3538571 A1	19870507	DE19853538571	19851030

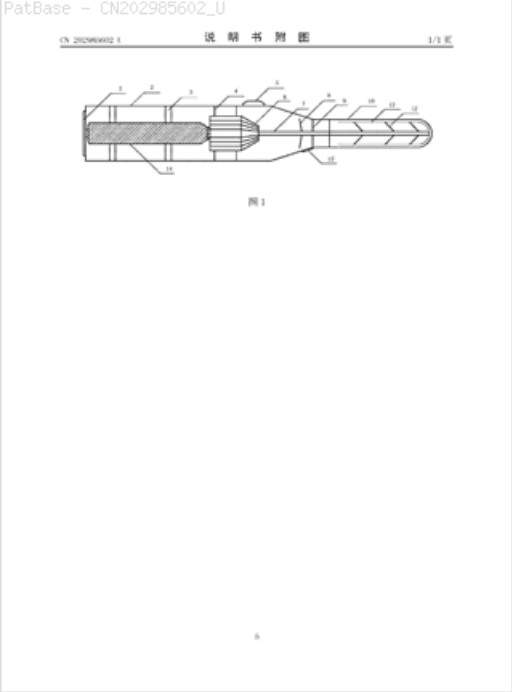
Priority: DE19853538571 19851030;

Cited documents: JP51146957 A2, JP146957, DE3148376 A1, DE1688497 U,
Assignee(s): (std): RADEBOLD CLAUS ; RADEBOLD CLAUS DIPL VOLKSW
Inventor(s): (std): RADEBOLD CLAUS
Inventor(s): RADEBOLD CLAUS DIPL VOLKSW

18) Family number: 54092994 (CN202985602U)
Title: NOSE HAIR CUTTER

Abstract:

Source: CN202985602U The utility model relates to a nose hair cutter. The nose hair cutter consists of a battery hole, a shell, battery supports, motor supports, a switch, a motor, a rotational shaft, blades, rotational shaft supports, a cutting blade cover, a cutting blade, cutting blade supports, a cutting hole and a battery. The nose hair cutter is characterized in that the front end of the shell is provided with the cutting blade cover; the battery hole is formed in the back end of the shell; the switch is arranged on the outside of the upper part of the front end of the shell; the cutting hole is formed in the outside of the lower part of the front end of the shell; the battery is arranged on the battery supports which are positioned at the back end of the inner part of the shell; the motor is arranged on the motor supports which is positioned at the front end of the inner part of the shell; the rotational shaft is arranged at the front end of the motor; the cutting blade supports are arranged at the front end of the rotational shaft; the cutting blade is arranged on the cutting blade supports; the blades are arranged at the back end of the rotational shaft; the rotational shaft is fixed on the shell through the rotational shaft supports; and the cutting blades are arranged in the cutting blade cover.



International class (IPC 8-9): B26B19/16 (Advanced/Invention)
Family:

Publication number	Pub. date	Application number	App. date
CN202985602 U	20130612	CN201220732308U	20121227

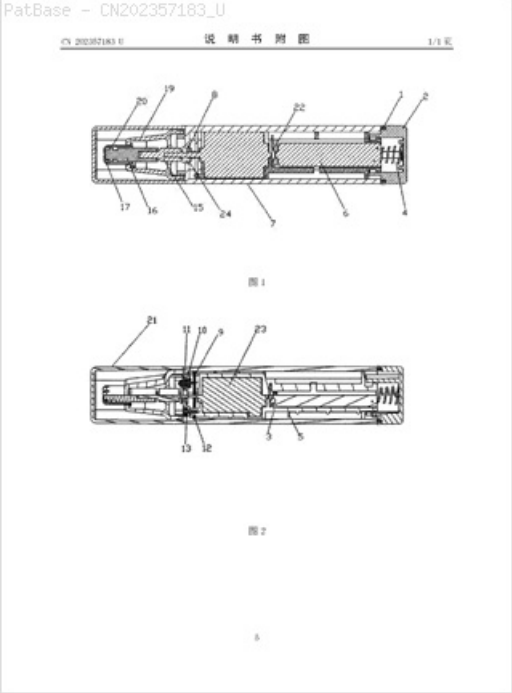
Priority: CN201220732308U 20121227;

Assignee(s): (std): LIU CUIHUA
Inventor(s): (std): LIU CUIHUA

19) Family number: 51689757 (CN202357183U)
Title: Nose hair trimmer

Abstract:

Source: CN202357183U The utility model relates to a nose hair trimmer including a casing, a power supply, a switch and a motor are arranged in the casing, the power supply supplies power to the motor via the switch, a connecting shaft is arranged on the motor shaft of the motor, a blade holder is arranged on the connecting shaft, a blade is arranged on the blade holder, a cutter head is arranged in the front of the blade, the motor drives the connecting shaft via the motor shaft to enable the blade on the blade holder and the cutter head to perform cutting movement, thereby realizing the trimming of nose hair. The power supply is connected to a purple LED via the switch, and the purple LED sends ultraviolet rays to perform ultraviolet ray disinfection when in use. The nose hair trimmer has the advantages of simple structure, easy manufacturing, low cost, convenient carrying, waterproofing, dustproofing, automatic cleaning, energy saving and environmental protection.



International class (IPC 8-9): B26B19/02 B26B19/28 (Advanced/Invention)
Family:

Publication number	Pub. date	Application number	App. date
CN202357183 U	20120801	CN201120336758U	20110908

Priority: CN201120336758U 20110908;

Assignee(s): (std): ELIN ZHOU
Assignee(s): ZHOU ELIN
Inventor(s): (std): ELIN ZHOU
Inventor(s): ZHOU ELIN

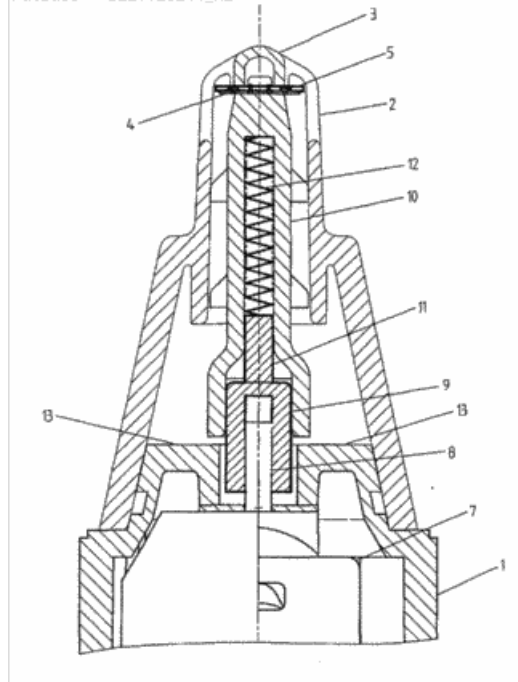
20) Family number: 15686774 (DE10018144A1)

Title: Miniature hair cutter has rotating disc cutter blade with peripheral serrations or teeth and fixed cutter comb mounted immediately above or below cutter blade Miniaturhaarschneidegeraet

Abstract:

Source: DE10018144A1 The device has a housing (1), a **cutter** cap (2) at the upper end of the housing, a rotating **cutter** blade (4) in the cap and an electric drive (7) for the **cutter** blade. The **cutter** blade is a disc with peripheral serrations or teeth and a fixed **cutter** comb (5) is mounted immediately above or below the rotating **cutter** blade. Um Haare an kritischen und schwer zugänglichen Stellen, insbesondere in der Nase und im Ohr, gründlich und ohne Verletzungsgefahr entfernen zu können, ist ein Miniaturhaarschneidegeraet aus einem Gehaeuse (1) und einer am oberen Ende des Gehaeuses (1) angeordneten Schneidkappe (2) mit Schlitzten (3) vorgesehen. Im Innern der Schneidkappe (2) ist ein scheibenfoermiger Scherkamm (5) mit Zaehnen (6) an seinem Umfang angeordnet. Unmittelbar unterhalb des Scherkammes (5) rotiert ein scheibenfoermiges Schermesser (4), das ebenfalls Zaehne (6) an seinem Umfang aufweist. Die Schlitzte (3) in der Schneidkappe (2) sind dreieckfoermig ausgebildet und so zentral um den Mittelpunkt der Schneidkappe (2) angeordnet, dass ihre Spitzen auf den Mittelpunkt gerichtet sind. Der Durchmesser des Schermessers (4) kann gleich, kleiner oder groesser als der Durchmesser des Scherkammes (5) gewaehlt sein. Die Schneidkappe (2) ist vorzugsweise kuppelfoermig ausgebildet. Das Schermesser (4) wird mittels einer Druckfeder (12) gegen den Scherkamm (5) gedrueckt. Vorzugsweise sind das Schermesser (4) und der Scherkamm (5) als aetzteile hergestellt.

PatBase - DE10018144_A1



International class (IPC 8-9): B26B19/14 (Advanced/Invention)

International class (IPC 1-7): B26B19/04 B26B19/14

CPC: B26B19/148

European class: B26B19/14E

Family:

Publication number	Pub. date	Application number	App. date
DE10018144 A1	20011018	DE20001018144	20000412

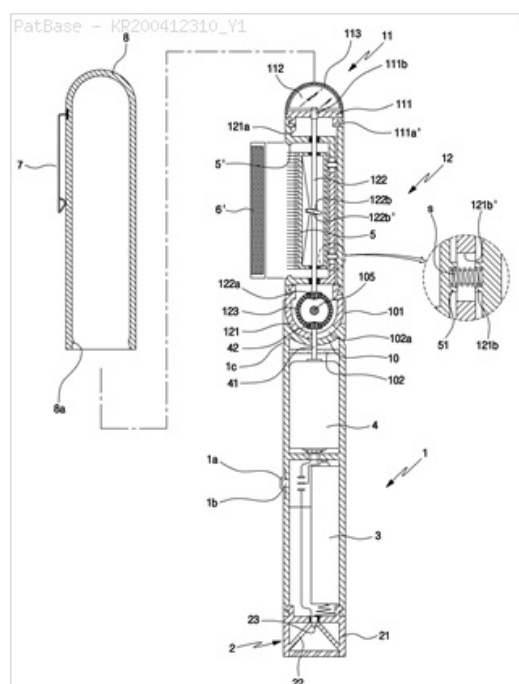
Priority: DE20001018144 20000412;

Assignee(s): (std): MOSER ELEKTROGERAETE GMBH

Inventor(s): (std): MUELLER HARTMUT

21) Family number: 44547303 (KR200412310Y)
Title: ELECTRIC SHAVE BE ALIKE FOUNTAIN PEN
Abstract:
Source: KR200412310Y

Machine translation: The idea which it sees carrying is simple specially simply in the pocket and it uses convenient it is and shaving hour shaving of the chin beard to be big the [tu] additional main body and 45 degrees it is met together and it follows conveniently, in face bends and will use not only from the **nose** which is located in the center of the face the **nose hair** inside equipping the thing cleanly big [thing] with the fact that regarding the fountain pen elder brother electric shaving flag which is possible, the idea which more to under upper three in order to attain the objective which it describes minutely it sees on lower part 4 contracting the connection department which is contracted in the plate which this is only formed [sing] to come to insert, in compliance with the drive shaft **nose hair** cutting edge it rotates to be formed, the minute description **nose hair** cutIt reaches this standing at day and smallness suspension of publication standing the **nose hair** cut department which is composed with the syllable elder brother safety net which is fixed and minute description contracting this it is only contracted and the contracting groove follows a circumference upper end grade and it is formed, inside the cutting edge petal where the chin which is caught to the rear is formed is established the establishment and a disconnection prevention of the spring in the center rear wall it respects and the one side where the chin which is caught is formed, lower part end grade it accomplishes a syllable form, but the meeting together hall for a **motor** celebration insertion and meeting together is formed, to both sides of the minute description meeting together hall the stumbling block flag is projected looking downward and the bulging where the horizontal direction hinge hall is penetrated to the center of syllableIt forms the meeting together grade cap, in order to make to the bell direction center the **nose hair** cut department and cutting edge petal the drive the shaving **cutter** department where the drive shaft hall which the drive shaft where the drive gear is had all in the lower part comes to insert is formed and horizontal direction it is confronted and the hinge hall is penetrated and the position hinge this it is only formed, the hinge hall of the minute description bulging meeting together grade cap with hinge grade to be contracted with the hinge axis and in order to be met together in 0~45 degrees angles, in syllable form the axis hall is formed in the center, to have all the accommodating meeting together grade where the slide hall is formed on both sides of the minute description axis hall, on the lower part of minute description accommodating meeting together grade powerIt is formed with the main body where the drainage rubber ring which is contracted in the **motor** axis where the gear is fixed on top is formed the fact that with feature. Fountain pen elder brother electric shaving flag, shaving cut department, center gear and meeting together department,



International class (IPC 8-9): B26B19/02 (Advanced/Invention);
B26B19/02 (Advanced/Non-invention);
B26B19/02 (Core/Invention)
CPC: B26B19/048 B26B19/32 B26B19/3833 B26B19/3853
Family:

Publication number	Pub. date	Application number	App. date
KR200412310 Y1	20060327	KR20050034045U	20051202

Priority: KR20050034045U 20051202;

Assignee(s): OHTAEJUN

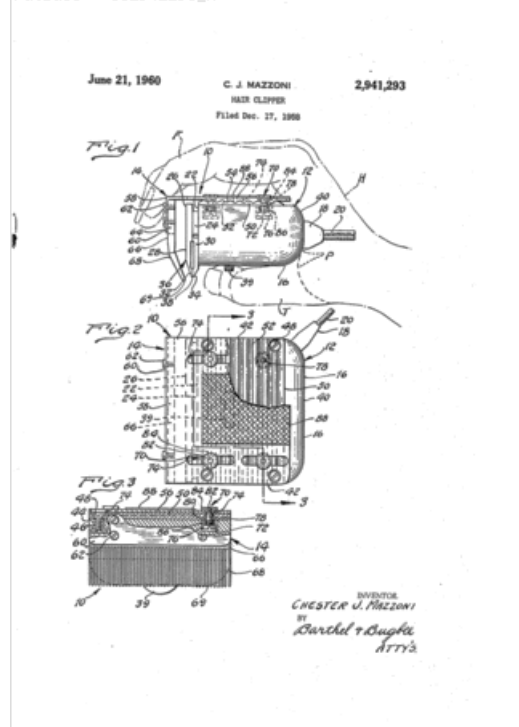
22) Family number: 22728156 (US2941293A)

Title: HAIR CLIPPER

Abstract:

Source: US2941293A (Claim 1) What I claim, is: 1. A **motor**-driven self-operated cut-regulating **hair** clipper comprising, a clipper casing of laterally-elongated shape having a forward end and opposite side walls, a P-

PatBase - US2941293_A



International class (IPC 8-9): B26B19/20 (Advanced/Invention);
B26B19/00 (Core/Invention)

International class (IPC 1-7): B26B19/20

CPC: B26B19/20

European class: B26B19/20

US class: 30/201

Family:

Publication number	Pub. date	Application number	App. date
US2941293 A	19600621	US19580781104	19581217

Priority: US19580781104 19581217;

Cited documents: US2802263 A,

Assignee(s): (std): MAZZONI CHESTER J

Inventor(s): (std): MAZZONI CHESTER J

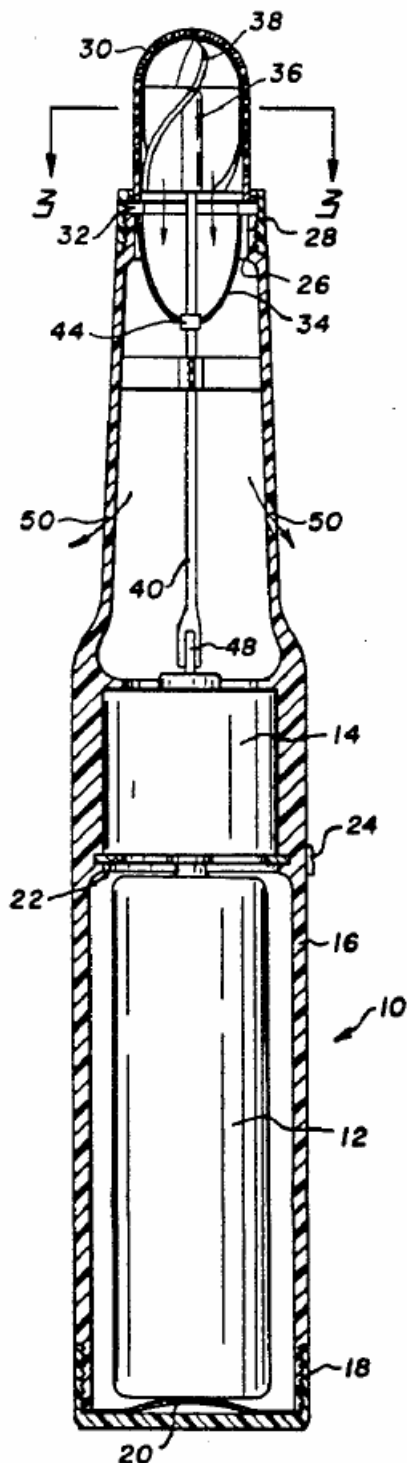
23) Family number: 4568961 (US5012576A)

Title: Personal hair trimmer

Abstract:

Source: US5012576A A hand held **hair** trimmer for trimming **hair** in **nose** and ears has a **cutter** action and fan like action to collect the cut **hair**. The trimmer comprises a hand held container with a battery and **motor** therein, a rotatable shaft extends from the **motor** to one end of the container which has a screen with apertures of sufficient size to allow **hairs** to pass therethrough. The screen is semispherical in shape and joined to a cylindrical portion. A cutting head is attached to the end of the shaft and rotates within the screen with the blades arranged to cut **hairs** protruding through the screen, and being angled to provide a fan like action when rotated. A removable filter is located within the container adjacent the screen to cut **hair** trimmings and a vent is located in the container to vent air pulled into the container from the rotating blades, the air vent is down stream from the filter.

PatBase - US5012576_A



International class (IPC 8-9): B26B19/14 (Advanced/Invention)

International class (IPC 1-7): B26B19/00

CPC: B26B19/148

European class: B26B19/14E

US class: 30/133 30/29.5 30/295 30/41.5

Family:

Publication number	Pub. date	Application number	App. date
US5012576 A	19910507	US19900554616	19900718

Priority: US19900554616 19900718;

Cited documents: US4958432 A, US2598212 A,

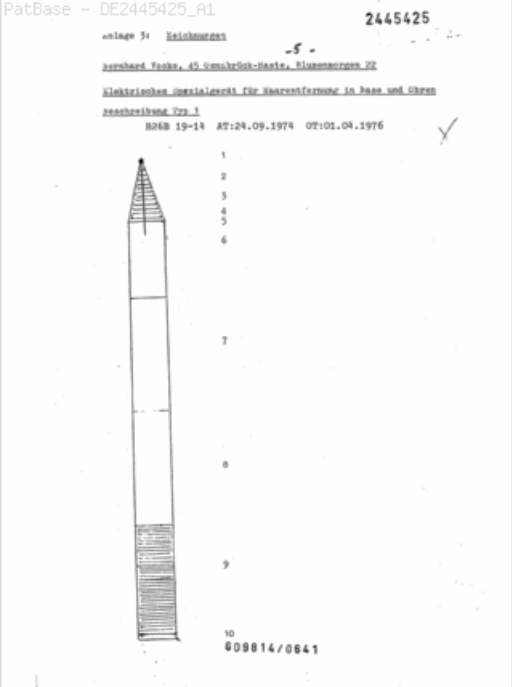
Assignee(s): (std): JOHANNESSON JIMMIE R
Inventor(s): (std): JOHANNESSON JIMMIE R

24) Family number: 2180769 (DE2445425A1)

Title: ELEKTRISCHES SPEZIALGERAET FUER HAARENTFERNUNG IN NASE UND OHREN POWERED CUTTER FOR REMOVING HAIR FROM NOSE AND EARS - HAS TAPERED CUTTER WITH PROTECTING HEAD REMOVED FOR CLEANING PURPOSES

Abstract:

Source: DE2445425A1 Patentanspruch Oberbegriff: Scherkopf fuer einen Xarrentferner fuer die Benutzung in Nase und Ohren Kennzeichnender Teil: dadurch gekennzeichnet, dass auf einem durch Batterie betrieb oder Netzanschluss getriebenem **Motor** ein abschraubbarer Scherkopf gesetzt wird Dieser Scherkopf ist kegelfoermig ausgepraegt mit innen rotierenden Messern Leerseite. The electrical special tool is used for removing **hair** from **nose** and ears. This tool is powered either by batteries or from mains. The **hairs** are removed completely and no injuries are caused when removing **hair**. The machine has a rotating cutting head with a tapered cutting blade which is provided with a blunt **nose**. The tool has a protecting head which is removed for cleaning purposes. The tapered cutting blade is driven by a **motor**. The whole head can be removed for cleaning of the **motor**.



International class (IPC 8-9): B26B19/14 (Advanced/Invention);
B26B19/14 (Core/Invention)

International class (IPC 1-7): B26B19/14

CPC: B26B19/148

European class: B26B19/14E

Family:

Publication number	Pub. date	Application number	App. date
DE2445425 A1	19760401	DE19742445425	19740924

Priority: DE19742445425 19740924;

Assignee(s): (std): VOCKE BERND

Inventor(s): (std): VOCKE BERND

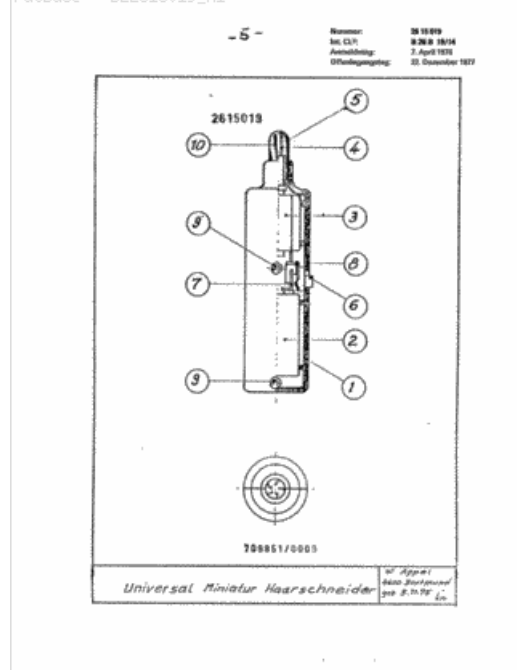
25) Family number: 2565360 (DE2615019A1)

Title: UNIVERSAL-MINIATUR-HAARSCHNEIDER ELECTRICALLY POWERED MINIATURE HAIR CUTTER - HAS CUTTING HEAD IN SMALL OPENING COUPLED WITH DRIVE SHAFT TO BATTERY POWERED MOTOR

Abstract:

Source: DE2615019A1 Patentansprüche: y)Kss Elektrischer Ilaarschneider mit Scherkopf,dadurchgekennzeichnet, dass ein in kleinere Offnungen einfuehrbarer Scherkopf (4) mit der Welle eines Elektro **motors** (3) verbunden ist 2 Elektrischer Haarschneider mit Scherkopf nach dem Anspruch 1,dadurchgekennzeichnet, dass die Welle des Scherkopfes (4) rotiert und ueber einen Gleich strommotor (3) mit Batterie angetrieben ist 3. Miniature **hair cutter** is esp. designed for cutting **hair** in the **nose**, ear or eyebrows and comprises a cutting head (4) with a rotating drive shaft coupled to a direct current **motor** (3) powered by a battery. The head is drop-shaped, cylinder-shaped with a rounded end or is shaped like a truncated cone. The max. dia. of the head or the cutting blades (5) is less than 1 cm. Slits (10) or boreholes or both are provided in the head to permit the entry of **hair**. The **cutter**'s housing is made in two parts from plastic material (e.g. ABS) connected by screws (9).

PatBase - DE2615019_A1



International class (IPC 8-9): B26B19/16 (Advanced/Invention);
B26B19/14 (Core/Invention)

International class (IPC 1-7): B26B19/14

CPC: B26B19/16

European class: B26B19/16

Family:

Publication number	Pub. date	Application number	App. date
DE2615019 A1	19771222	DE19762615019	19760407

Priority: DE19762615019 19760407;

Assignee(s): (std): APPEL WILHELM