

24) Family number: 18757730 (EP0408828A1)

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Title: TOOTHBRUSH HOLDER.

**Abstract:** A toothbrush holder (1, 2) has a hood (1), which can be installed on the wall of a building, for covering the toothbrush head (5) and a holding device (2, 7) for hanging the toothbrush (4) up with the toothbrush head (5) at the top by means of two holding arms (2) which bound a gap between them for inserting the toothbrush head (5) and, when the toothbrush head (5) has been inserted, project onto the side of the bristle carrier (10) provided with the bristles. To simplify the manufacture and handling of the toothbrush holder (1, 2), provision is made for the hood (1) to have in its installed position an opening (3) pointing downwards for insertion of the toothbrush head (5) into the hood (1) from below, for the holding arms (2) to be attached in the hood (1), for the holding arms (2) and one wall (7) of the hood (1) to bound the gap, for the spacing between the free ends of the holding arms (2) to be smaller than the width of the set of bristles (5a), for the spacing of the free ends of the holding arms (2) from the one wall (7) mentioned to be smaller than the bristle length and greater than the thickness of the bristle carrier (10), and for the greatest gap width to be greater than the width of the toothbrush head (5).

**Classifications:**

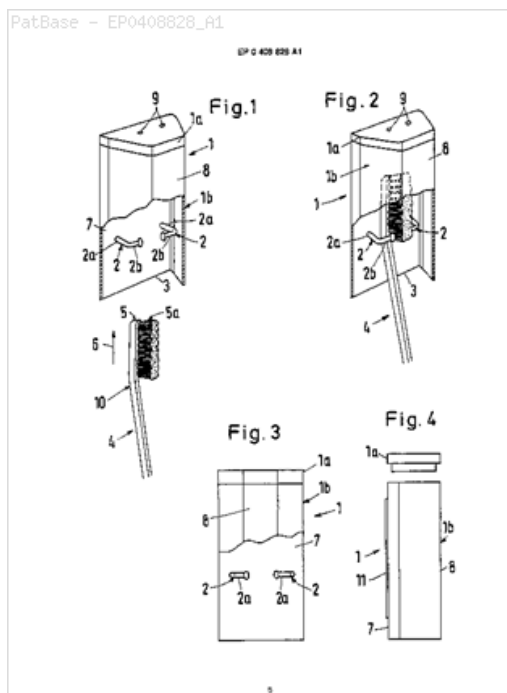
**International (IPC 8-9):** A47K1/09 (Advanced/Invention);

A47K1/08 (Core/Invention)

**International (IPC 1-7):** A47K1/09

**CPC:** A47K1/09

**European:** A47K1/09



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EP0408828 A1       | 19910123         | EP19900103657      | 19900226         |
| IT8921221 A0       | 19890718         | IT19890021221      | 19890718         |

**Priority:**

IT19890021221 19890718

**Probable Assignee:** IDROGAS DI EDMONDO PANCOTTI E

**Assignee(s):** (std): IDROGAS DI EDMONDO PANCOTTI E ; IDROGAS SAS DI EDMONDO PANCOTT

**Assignee(s):** IDROGAS SAS DI EDMONDO PANCOTTI AND C ; IDROGAS DI EDMONDO PANCOTTI E C S A S

**Inventor(s):** (std): TASSINARI NELLO

**Inventor(s):** NELLO TASSINARI

**Designated states:** AT BE CH DE DK ES FR GB LI LU NL SE

25) Family number: 12989578 (US5577285A)

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Title: Electric toothbrush with rotary bristle supporting structure

**Abstract:** PCT No. PCT/EP93/03024 Sec. 371 Date Jul. 15, 1994 Sec. 102(e) Date Jul. 15, 1994 PCT Filed Oct. 29, 1993 PCT Pub. No. WO94/12121 PCT Pub. Date Jun. 9, 1994A brush section (24) for an electric toothbrush in which a rotary shaft (34) is received which is adapted to perform an alternating or a rotary motion. Mounted on the brush section (24) is a rotary bristle supporting structure (38) having its axis of rotation (54) disposed at about right angles to the axis of rotation (52) of the shaft (34). The shaft (34) receives movably therein a rod (102) disposed approximately parallel and eccentrically. In an annular shoulder (61) of the bristle supporting structure (38), a pin (112) is held, extending approximately parallel and eccentrically to the axis of rotation (54). The pin (112) is passed through an eyelet (103) provided at the free end of the rod (102) and is movable therein. When the shaft (34) is caused to perform a rotary or alternating motion, this motion is transmitted to the bristle supporting structure (38) through the rod (102), the eyelet (103), and the pin (112). The bristle supporting structure (38) will invariably perform a rotary alternating motion, irrespective of whether the shaft (34) is driven to perform an alternating or a rotary motion.

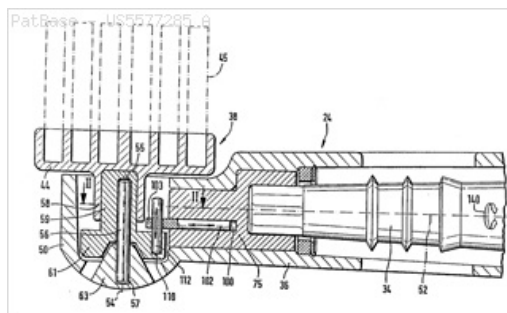
**Classifications:****International (IPC 8-9):** A46B13/02 A61C17/00 A61C17/22

A61C17/34 A61C17/40 (Advanced/Invention);

A46B13/00 A61C17/00 A61C17/16 (Core/Invention)

**International (IPC 1-7):** A46B13/02 A61C17/00 A61C17/22

A61C17/26 A61C17/34 A61C17/40

**CPC:** A61C17/3436 A61C17/349**European:** A61C17/34A3 A61C17/34B**US:** 15/22.1 15/28**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT155665 E         | 19970815         | AT19930924550T     | 19931029         |
| CN1048389 C        | 20000119         | CN19931014525      | 19931120         |
| CN1089821 A        | 19940727         | CN19931014525      | 19931120         |
| DE4239251 A1       | 19940526         | DE19924239251      | 19921121         |
| DE59306976 D1      | 19970828         | DE19935006976      | 19931029         |
| DK0624079 T3       | 19980302         | DK19930924550T     | 19931029         |
| EP0624079 A1       | 19941117         | EP19930924550      | 19931029         |
| EP0624079 B1       | 19970723         | EP19930924550      | 19931029         |
| ES2105343 T3       | 19971016         | ES19930924550T     | 19931029         |
| GR3024978 T3       | 19980130         | GR19970402620T     | 19971009         |
| HK1001490 A1       | 19980619         | HK19980100450      | 19980120         |
| JP2710692 B2       | 19980210         | JP19940512681T     | 19931029         |
| JP7505814 T2       | 19950629         | JP19940512681T     | 19931029         |
| KR100277423 B1     | 20010115         | KR19940702477      | 19931029         |
| KR19957002104 A    | 19950619         | KR19947002477      | 19931029         |
| KR957002104 A      | 19950619         | KR19940702477      | 19940719         |
| US5577285 A        | 19961126         | US19940256520      | 19940715         |
| WO9412121 A1       | 19940609         | WO1993EP03024      | 19931029         |

**Priority:**

DE19924239251 19921121 DE19935006976 19931029 WO1993EP03024 19931029

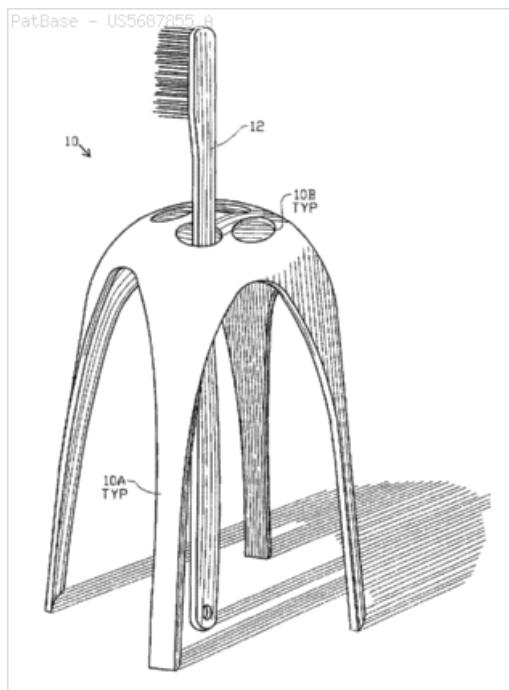
**Probable Assignee:** BRAUN GMBH**Assignee(s):** (std): BRAUN AG ; DROESSLER MICHAEL**Assignee(s):** BRAUN AG 60326 FRANKFURT ; BRAUN AKTIENGESELLSCHAFT ; BRAUN AKTIENGESELLSCHAFT 60326 FRANKFURT DE ; BRAUN GMBH ; BRAUN AKTIENGESELLSCHAFT**Inventor(s):** (std): DROESSLER MICHAEL**Inventor(s):** DR AND E UML O AND EE SSLER MICHAEL ; DROSSLER MICHAEL ; DROESLER MICHAEL 6370 OBERURSEL ; MICHAEL DROSSLER ; DROESSLER MICHAEL D 61440 OBERURSEL DE ; MICHAEL DROESSLER**Designated states:** AT BE CH DE DK ES FR GB GR IE IT JP KR LI LU MC NL PT SE US**26) Family number: 13903740 (US5687855A)**

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**Title:** Disposable toothbrush holder**Abstract:** A disposable toothbrush holder, particularly for the convenience and hygiene of visitors in motels and hotels, holds toothbrushes upright, bristle end up, for sanitary drying, supported in circular openings in a convex upper portion supported by integrally-formed legs. The holders can be molded economically from recyclable plastic material, and can be nested together for space-efficient packaging.**Classifications:****International (IPC 8-9):** A47K1/09 (Advanced/Invention);

A47K1/08 (Core/Invention)

**International (IPC 1-7):** A45D44/18 A47B81/02**CPC:** A47K1/09**European:** A47K1/09**US:** 211/65 D6/534



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US5687855 A        | 19971118         | US19960644128      | 19960510         |
| WO9902065 A1       | 19990121         | WO1997US13425      | 19970710         |

#### Priority:

US19960644128 19960510 WO1997US13425 19970710

#### Probable Assignee:

HELLER BARRY N

#### Assignee(s): (std):

HELLER BARRY N

#### Inventor(s): (std):

HELLER BARRY N

#### Designated states:

CN JP KR SG

#### 27) Family number: 8442814 (US5355546A)

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#### Title: TOOTHBRUSH WITH RESILIENT FLEXIBLE BRISTLE SUPPORT

**Abstract:** A toothbrush is set forth in which the bristles are mounted on a readily flexed resilient member supported from a handle by means of one or more handle extensions. The bristles are arranged in arrays with a center array for engaging the biting surface of a tooth and outer arrays for simultaneously engaging the sides of the tooth and adjacent gums when the resilient member is flexed by the engagement of the center array bristles with the tooth. The resilient member can be flat or arcuate and bristles can project from either side of the resilient member. A double headed toothbrush is also described.

#### Classifications:

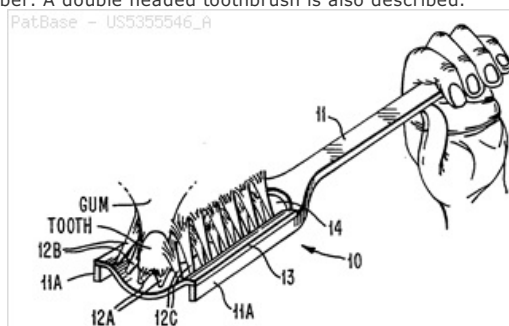
**International (IPC 8-9):** A46B7/06 A46B9/04 (Advanced/Invention); A46B7/00 A46B9/00 (Core/Invention)

**International (IPC 1-7):** A46B9/04

**CPC:** Y10S15/05 A46B5/0029 A46B7/06 A46B9/04 A46B2200/1066

**European:** A46B5/00B1A A46B7/06 A46B9/04 K46B200/10G

**US:** 15/167.1 15/167.2 15/201 15/DIG.5



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU199458006 A1     | 19940704         | AU19940058006      | 19931210         |
| US5355546 A        | 19941018         | US19920989163      | 19921211         |
| US5483722 A        | 19960116         | US19940277532      | 19940719         |
| WO9413174 A1       | 19940623         | WO1993US12122      | 19931210         |

#### Priority:

US19920989163 19921211 WO1993US12122 19931210 US19940277532 19940719

#### Probable Assignee: SCHEIER LUISE E

**Assignee(s): (std):** PAUL A SCHEIER ; SCHEIER LOUISE E ; SCHEIER LUISE A ; SCHEIER PAUL A

**Assignee(s):** SCHEIER PAUL ANEW YORK NEW YORK SCHEIER LUISE ENEW ; SCHEIER LUISE E

**Inventor(s): (std):** SCHEIER PAUL A ; SCHEIER LUISE A ; SCHEIER LOUISE E

**Inventor(s):** LUISE A SCHEIER ; PAUL A SCHEIER

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

**Title:** ARTICLE HOLDERS

**Abstract:** 926,673. Toothbrush c. holders. I. COWAN. May 24, 1961, No. 18676/61. Classes 52 (1) and 131. An enclosed toothbrush rack comprises a base having slots to receive the brushes, and a housing 15 enclosing the brush heads and having doors 30 each of which is pivoted at 12, 13 in the base and in the top wall of the housing and is operated by insertion or removal of a brush. The housing has a partition 17, a container 65 for disinfectant being mounted in each compartment which also has two brush-receiving slots 20, 21, each of which is closed by an outer plate 40 and an inner plate 50 mutually pivoted on a pin 35 mounted in a base-plate 10 and in a cross-bar 55 secured in spaced relation to the baseplate by a stud 57. A wing 32 extends from the lower edge of the door and has a cam edge 34 engaging a pin 44 on the plate 40 and a pin 53 on the lower surface of the plate 50 engages a shoulder 49 on the plate 40 so that the plates are moved against spring action to slot-opening position when the door is moved inwards by pressure of a toothbrush. The plates are spring-urged to slot-closing position when the inserted brush has cleared the plate 50 which is slotted at 51 to allow variation in the size of brush. On removal, the brush cams the plates to open position and is pressed against the door to open it.

**Classifications:**

**International (IPC 8-9):** A24F9/14 A47K1/09 (Advanced/Invention);

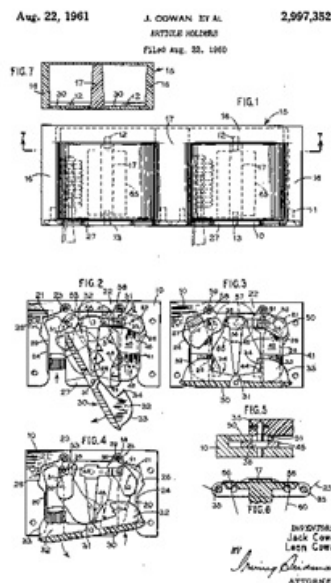
A24F9/00 A47K1/08 (Core/Invention)

**CPC:** A24F9/14 A47K1/09

**European:** A24F9/14 A47K1/09

**US:** 206/362.3 312/207 312/271

PatBase - US2997352\_A



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| FR1294399 A        | 19620526         | FR19610863791      | 19610602         |
| GB926673 A         | 19630522         | GB19610018676      | 19610524         |
| US2997352 A        | 19610822         | US19600050944      | 19600822         |

**Priority:**

US19600050944 19600822 GB19610018676 19610524 FR19610863791 19610602

**Probable Assignee:** IRVING COWAN

**Assignee(s):** (std): IRVING COWAN

**Inventor(s):** (std): COWAN IRVING ; COWAN JACK ; COWAN LEON ; COWAN LEON J ; JACK COWAN

**Title:** TOOTHBRUSH AND HANDLE/CASE AND SUPPORT FOR SAME

**Abstract:** The invention relates to a toothbrush (1) for buccal hygiene, which is made from a resistant, unbreakable and shatterproof material such as plastic. The inventive toothbrush (1) consists of a long support (2) comprising an upper, slightly-curved, stylised support section (3) which gradually diminishes in diameter and thickness towards the top of same, up to a point at which the width thereof increases to form an oval section or brush head (4). The front part of the aforementioned head comprises numerous tufts of bristles (5) which are embedded in said head and which are disposed perpendicular to same. The upper support section (3) is provided with numerous small, hemispherical projections (6) which are disposed almost on the inner part thereof, while the lower part of said support section (3) comprises a long, vertical, rounded projecting element (7). The upper part of both the right and left sides of the above-mentioned projecting element (7) comprises a small, long, narrow projection (8) while the upper front part of said projecting element (7) is provided with a circular recess (r). The invention also relates to a handle/case (9) for the toothbrush (1), which is made from a resistant material such as plastic and which comprises a truncated conical section (10) which is open at both the upper and lower ends thereof. The aforementioned conical section (10) comprises numerous small, hemispherical projections (6) close to the upper end thereof, while the upper, inner section of the truncated cone (10) comprises two long, narrow longitudinal grooves (11) which are disposed parallel to one another and numerous small hemispherical projections (6). Moreover, the invention relates to the system of mounting the toothbrush (1) on the handle/case (9) and of inserting the toothbrush (1) inside said handle/case (9). The invention further relates to a toothbrush support (15) which is used to hold a toothbrush (1) or similar element and which is fixed to a surface such as a wall, table, etc.

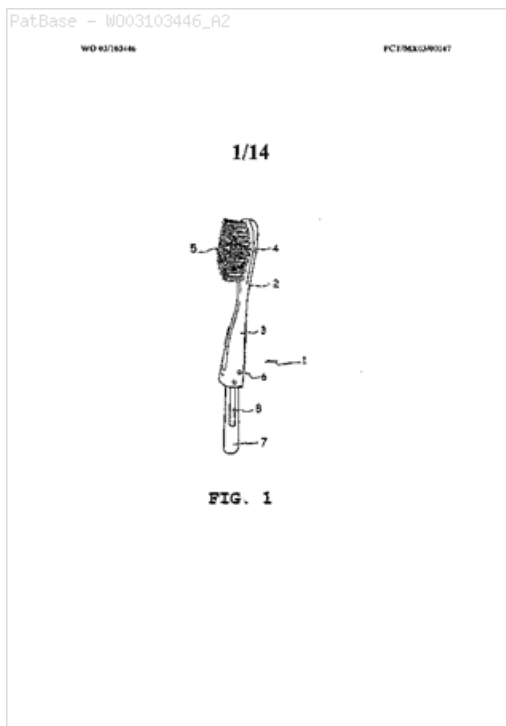
**Classifications:**

**International (IPC 8-9):** A46B17/02 A46B5/00

A47K1/09 (Advanced/Invention);

A46B7/04 (Advanced/Non-invention);

A46B17/00 A46B5/00 A47K1/08 (Core/Invention);  
A46B7/00 (Core/Non-invention)  
**International (IPC 1-7):** A46B A46B15/00 A46B5/00 A47K1/09  
A61C 17/00  
**CPC:** A46B5/00 A46B7/04 A46B15/0097 A46B17/02 A46B2200/1066  
A47K1/09  
**European:** A46B15/00K A46B17/02 A46B5/00 A47K1/09  
K46B200/10G K46B7/04



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2003241208 AA    | 20031222         | AU20030241208      | 20030610         |
| AU2003241208 AH    | 20031222         | AU20030241208      | 20030610         |
| MXPA02005784 A1    | 20031216         | MX2002PA05784      | 20020611         |
| WO03103446 A2      | 20031218         | WO2003MX00047      | 20030610         |
| WO03103446 A3      | 20041028         | WO2003MX00047      | 20030610         |

#### Priority:

MX2002PA05784 20020611 WO2003MX00047 20030610

**Probable Assignee:** PLASTICOS Y TECNOLOGIA S A DE

**Assignee(s):** (std): PLASTICOS Y TECNOLOGIA S A DE ; SYRQUIN JAMSON ARI

**Assignee(s):** PLASTICOS Y TECNOLOGIA DE CV SA ; PLASTICOS Y TECNOLOGIA S A DE C V

**Inventor(s):** (std): JAMSON ARI SYRQUIN ; SYRQUIN JAMSON ARI

**Inventor(s):** ARI SYRQUIN JAMSON

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**30) Family number: 18942834** (WO9806312A1)

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**Title:** TOOTHBRUSH HOLDER

**Abstract:** This invention concerns a toothbrush holder (1) which serves to support toothbrushes and has both a point of support (6) and, at a distance thereof, a point of abutment (7) for contact with the toothbrush handle on opposite sides. The point of support is provided on the back side in an area towards the brush head and the point of abutment on the inside in an area away from the toothbrush side. The plane connecting both points of contact is essentially almost horizontal and the separation between the two points of support (6, 7) is less than the separation between the center of gravity (S) of the toothbrush (5) and the rear end (15) of the toothbrush handle.

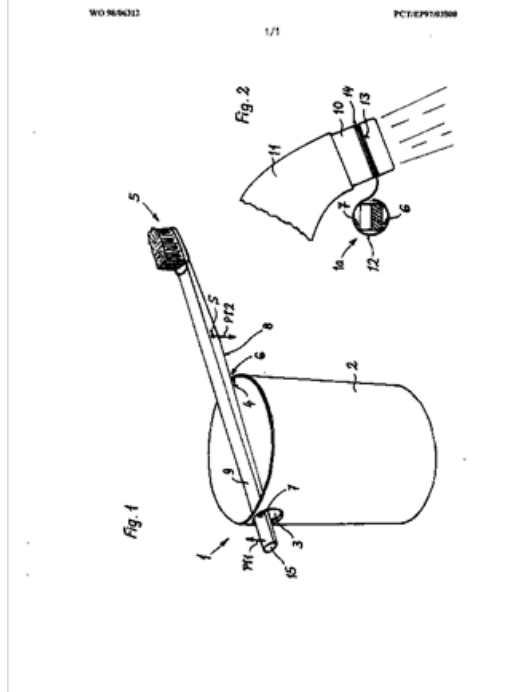
#### Classifications:

**International (IPC 8-9):** A47K1/09 (Advanced/Invention);  
A47K1/08 (Core/Invention)

**International (IPC 1-7):** A47K1/09

**CPC:** A47K1/09

**European:** A47K1/09

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT189586 E         | 20000215         | AT19970935523T     | 19970716         |
| AU199738486 A1     | 19980306         | AU19970038486      | 19970716         |
| CA2263289 AA       | 19990209         | CA19972263289      | 19970716         |
| DE19632359 A1      | 19980219         | DE19961032359      | 19960810         |
| DE29622990 U1      | 19971030         | DE19962022990U     | 19960810         |
| DE59701122 D1      | 20000316         | DE19975001122      | 19970716         |
| EP0917435 A1       | 19990526         | EP19970935523      | 19970716         |
| EP0917435 B1       | 20000209         | EP19970935523      | 19970716         |
| ES2143876 T3       | 20000516         | ES19970935523T     | 19970716         |
| JP2000503882 T2    | 20000404         | JP19980509322T     | 19970716         |
| WO9806312 A1       | 19980219         | WO1997EP03808      | 19970716         |

**Priority:**

DE19961032359 19960810 DE19962022990U 19960810 DE19975001122 19970716  
 WO1997EP03808 19970716

**Probable Assignee:** POTSCHIES HEINZ 79669 ZELL DE

**Assignee(s):** (std): HEINZ POTSCHIES ; POTSCHIES HEINZ

**Assignee(s):** POTSCHIES HEINZ 79669 ZELL DE

**Inventor(s):** (std): POTSCHIES HEINZ ; HEINZ POTSCHIES

**Inventor(s):** POTSCHIES HEINZ 79669 ZELL DE

**Agent(s):** FETHERSTONHAUGH AND CO

**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

**31) Family number: 23186700 (US2003115706A)**

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**Title:** DISASSEMBLABLE TOOTHBRUSH WITH POSITIVE BLOCKING

**Abstract:** A disassemblable toothbrush, includes a bristled portion and a handle portion, the bristled portion comprising a coupling part having at least one flexible working portion provided with a tooth and the handle portion comprising a seat for engagement of the coupling part which has at least one locating element for retaining the tooth, in which the engaging seat (4) comprises a recess (4b) for housing a deformable elastomeric mass (E) able to exert an elastic reaction pressing against the flexible working portion of the coupling part so as to keep the tooth (3c) actively engaged with the locating element (6).

**Classifications:**

**International (IPC 8-9):** A46B5/00 A46B7/04

A46B9/04 (Advanced/Invention);

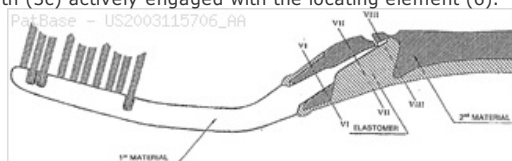
A46B5/00 A46B7/00 A46B9/00 (Core/Invention);

A46B (Subclass/Invention)

**International (IPC 1-7):** A46B5/00 A46B7/04 A46B7/04 A46B9/04

**CPC:** A46B2200/1066 A46B5/0095 A46B7/042

**US:** 15/143.1 15/145 15/167.1 15/176.1 15/176.6

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT280521 E         | 20041115         | AT20000117179T     | 20000810         |
| AT347289 E         | 20061215         | AT20010940869T     | 20010517         |
| AU200174361 A1     | 20011126         | AU20010074361      | 20010517         |
| AU200174361 A5     | 20011126         | AU20010074361      | 20010517         |

|                 |          |                |          |
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| DE60015247 D1   | 20041202 | DE20006015247  | 20000810 |
| DE60015247 D1   | 20041202 | DE20006015247T | 20000810 |
| DE60015247 T2   | 20051103 | DE20006015247T | 20000810 |
| DE60125031 D1   | 20070118 | DE20016025031T | 20010517 |
| DE60125031 D1   | 20070118 | DE20016025031  | 20010517 |
| DE60125031 T2   | 20070510 | DE20016025031T | 20010517 |
| EP1075806 A1    | 20010214 | EP20000117179  | 20000810 |
| EP1075806 B1    | 20041027 | EP20000117179  | 20000810 |
| EP1284618 A1    | 20030226 | EP20010940869  | 20010517 |
| EP1284618 B1    | 20061206 | EP20010940869  | 20010517 |
| ES2230012 T3    | 20050501 | ES20000117179T | 20000810 |
| ES2274891 T3    | 20070601 | ES20010940869T | 20010517 |
| IT1313135 B1    | 20020617 | IT1999MI01806  | 19990810 |
| IT1318525 B1    | 20030827 | IT2000MI01099  | 20000518 |
| ITMI20001099 A0 | 20000518 | IT2000MI01099  | 20000518 |
| ITMI20001099 A1 | 20011119 | IT2000MI01099  | 20000518 |
| ITMI991806 A0   | 19990810 | IT1999MI01806  | 19990810 |
| ITMI991806 A1   | 20010212 | IT1999MI01806  | 19990810 |
| US2003115706 AA | 20030626 | US20020276523  | 20021115 |
| US6968590 BB    | 20051129 | US20010276523  | 20010517 |
| WO0187112 A1    | 20011122 | WO2001IB00857  | 20010517 |

#### Priority:

IT1999MI01806 19990810 IT2000MI01099 20000518 WO2001IB00857 20010517

**Probable Assignee:** PONZINI SPA

**Assignee(s):** (std): PONZINI ELIGIO ; PONZINI S P A ; PONZINI SPA

**Assignee(s):** PONZINI S P A LAZZATE

**Inventor(s):** (std): PONZINI ELIGIO

**Inventor(s):** ELIGIO PONZINI

**Agent(s):** YOUNG AND THOMPSON

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

### 32) Family number: 30755480 (US2004148724A)

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**Title:** TOOTHBRUSH WITH STAND

**Abstract:** A stand-up toothbrush having an elongated handle with a head at one end, the head carrying bristles, and a hand holding portion at the other end, the hand holding portion long enough to be fully grasped by the hand of the user. A stand is provided on the hand holding portion of the handle at the other end, the stand extending past the other end of the handle and terminating in a support end. The support end extends transverse to the handle and is large enough to stably support the toothbrush in an upright storage position. The handle is made from relatively rigid material, and the stand is made from resilient, flexible material of the type allowing the stand to be moved against the hand holding portion of the handle when the user grasps the stand and the hand holding portion so as to interfere minimally with holding the toothbrush during use, and to return to its original position when the brush is released.

#### Classifications:

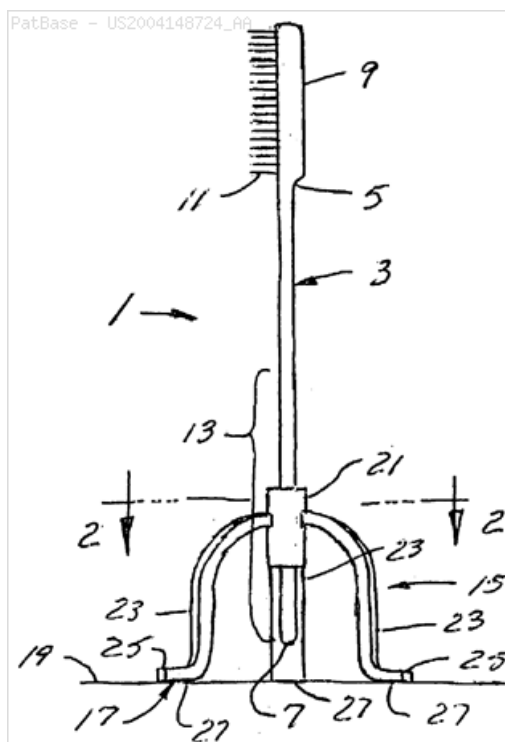
**International (IPC 8-9):** A46B5/00 (Advanced/Invention); A46B5/00 (Core/Invention)

**International (IPC 1-7):** A46B17/00 A46B5/00 A46B9/04

**CPC:** Y10T16/44 A46B5/00 A46B2200/1066

**European:** A46B5/00 K46B200/10G

**US:** 15/143.1 15/143.100S 15/167.1 15/167.100P 15/246 15/246S 16/110.1 248/688 248/688S 401/131 D4/108



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2514734 AA       | 20050728         | CA20042514734      | 20040130         |

|                 |          |               |          |
|-----------------|----------|---------------|----------|
| US2004148724 AA | 20040805 | US20030356612 | 20030203 |
| US6907638 BB    | 20050621 | US20030356612 | 20030203 |
| WO04068999 A1   | 20040819 | WO2004CA00103 | 20040130 |
| WO04068999 B1   | 20041216 | WO2004CA00103 | 20040130 |

**Priority:**

US20030356612 20030203 WO2004CA00103 20040130

**Probable Assignee:** REVOLUTION ACOUSTICS LTD

**Assignee(s):** (std): KATZ ROBERT

**Assignee(s):** REVOLUTION ACOUSTICS LTD

**Inventor(s):** (std): KATZ ROBERT

**Agent(s):** PAAVILA JACK W

**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

**33) Family number: 33275713 (US2008061017A)**

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**Title:** HOLDER FOR SECURING TOOTHBRUSH HEADS

**Abstract:** A holder (1) for securing detachable toothbrush heads for electric toothbrushes, said toothbrush head having a movable disc or disc part supported by a shaft, and which is provided with bristles protruding substantially parallel to a first axis, said first axis extending substantially perpendicularly to the plane of the disc or disc part. The holder (1) is provided with a plurality of recesses (7), each of said recesses being adapted to accommodate in use at least the end of the toothbrush head supporting the disc or the disc part with bristles. Each recess has first supporting surfaces (8) to support in use the rim of the disc or disc part in the radial direction perpendicularly to said first axis, and second supporting surfaces (9) for supporting in use the rear side of the disc or the disc part in the axial direction parallel to said first axis.

**Classifications:**

**International (IPC 8-9):** A47B81/02 A47K1/09 (Advanced/Invention);

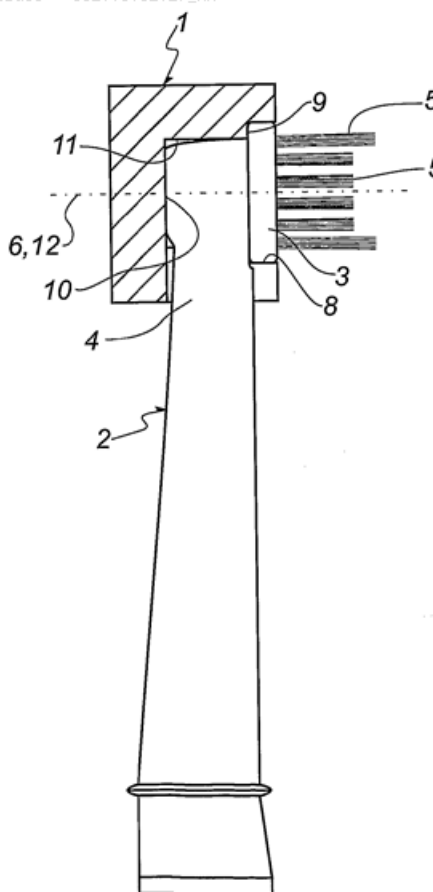
A47B81/00 A47K1/08 (Core/Invention)

**CPC:** A47K1/09

**European:** A47K1/09

**US:** 211/66

PatBase - US2008061017\_AH



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DK176200 B1        | 20070122         | DK20050000220      | 20050215         |
| DK200500220 A5     | 20060816         | DK20050000220      | 20050215         |
| US2008061017 AA    | 20080313         | US20060813689      | 20060215         |
| WO06086988 A1      | 20060824         | WO2006DK00090      | 20060215         |

**Priority:**

DK20050000220 20050215 WO2006DK00090 20060215

**Probable Assignee:** WAGNER KURT R

**Assignee(s):** (std): WAGNER KURT R

**Inventor(s):** (std): WAGNER KURT R

**Inventor(s):** WAGNER KURT  
**Agent(s):** DAVID A GUERRA INT PATENT GROUP LLC  
**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 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

**34) Family number: 43034739 (FR2920652A)**

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**Title:** AUTONOMOUS DENTAL HYGIENE SYSTEM FOR DISTRIBUTING E.G. TOOTHBRUSH, IN E.G. PUBLIC TOILET, HAS BOWL INCLUDING EDGE THAT IS ARRANGED ADJACENT TO UPPER EDGE OF FRONTAL WALL OF SUPPORT, SUCH THAT BOWL AND SIDE WALL FORM CONTINUOUS FLAT SURFACE

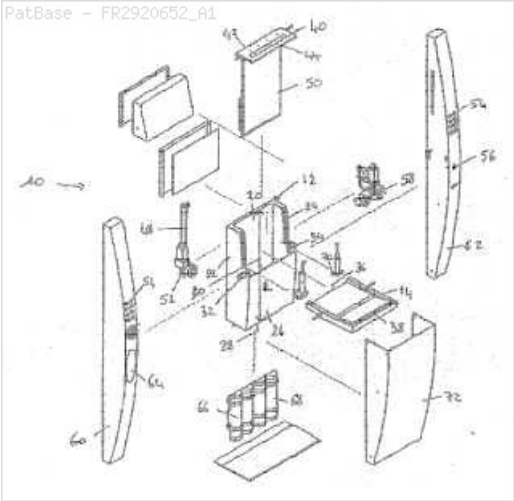
**Abstract:** The system (10) has a bowl (14) mounted pivotally on side walls (22, 24) of a support (12) between a closed position, in which the bowl extends vertically parallel to a bottom (20) of the support. The bowl extends horizontally perpendicular to the bottom in an open position. An edge (36) of the bowl near the bottom is spaced from the bottom in the open position to create a drainage passage. The edge is adjacent to an upper edge (30) of a frontal wall (26) of the support, such that the bowl and the wall (26) form a continuous flat surface.

**Classifications:**

**International (IPC 8-9):** A47K5/18 (Advanced/Invention);  
A47K5/00 (Core/Invention)

**CPC:** A47K5/18 E03C2201/90 G07F17/18

**European:** A47K5/18 G07F17/18 P03C201/90



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| FR2920652 A1       | 20090313         | FR20070006367      | 20070912         |

**Priority:**

FR20070006367 20070912

**Probable Assignee:** LEYER SOC RESPONSABILITE LIMIT

**Assignee(s):** (std): LEYER SOC RESPONSABILITE LIMIT

**Assignee(s):** LEYER SOC RESPONSABILITE LIMITEE ; LEYER SOCIETE RESPONSABILITE LIMITEE

**Inventor(s):** (std): MEYER LUC