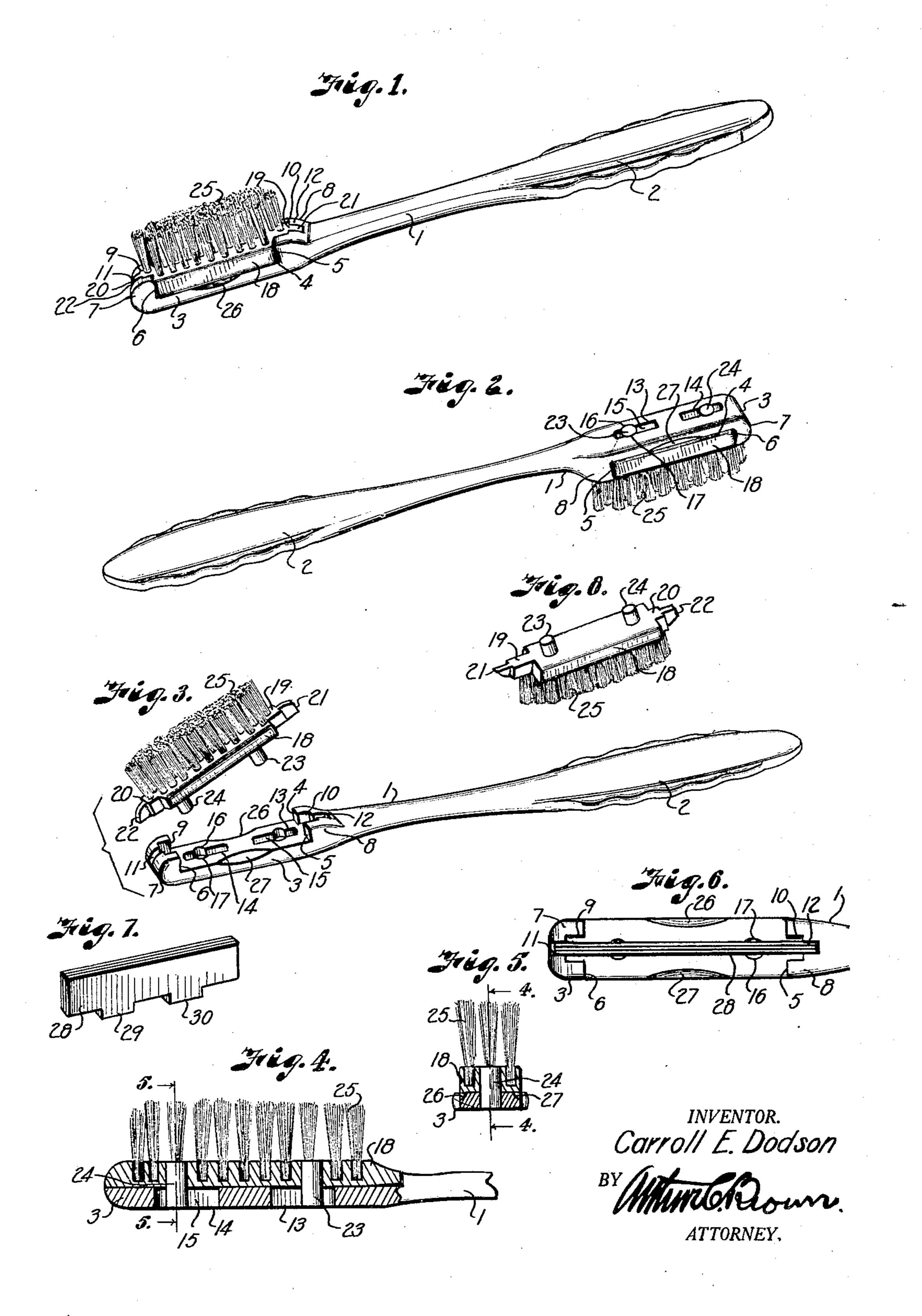
TOOTHBRUSH

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TOOTHBRUSH

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This invention relates to tooth and like desired form and includes a handle portion brushes and has for its principal object to 2 having an integral head portion 3. The provide a detachable bristle-carrying mem- handle portion 2 may be of any suitable shape ber which may be removed from the handle conforming to the style of present tooth brush 5 and replaced with a head formed as a gum construction. massaging pad or a head carrying a new set The head portion 3 preferably includes an of bristles.

10 carrying member on the handle so that it is not easily displaced when the brush is in use, but may be readily and quickly detached from the handle, and to provide for securing the Shoulder portions 7 and 8 are thus formed massaging pad to the handle member with 15 means which secures the bristle-carrying member.

In accomplishing these and other objects cess 4 as best illustrated in Fig. 3. of the invention I have provided improved The shoulder portions 7 and 8 are also prodrawing wherein:

25 brush particularly illustrating the pin and inafter described. slot connection of the bristle-carrying member.

30 showing the bristle-carrying member detached from the handle member.

ber, illustrating connection of the bristle- ing member now described. 35 carrying member with the handle member.

Fig. 5 is a cross sectional view on the line 5—5, Fig. 4.

⁴⁰ cation of a massage pad.

tached massage pad.

bristle-carrying member, particularly illus-45 trating the anchoring pins.

1 designates a handle member which may similar to an ordinary brush. be constructed of any suitable material, such The ends of the blocks are provided with that may be readily cast or machined to the in shape to the sockets 9 and 10 and the ends 100

enlarged portion of the handle and is pro-Other important objects of the invention vided with a recess 4 extending across the are to provide for retention of the bristle- width thereof and having its end walls 5 and 6 preferably slightly dovetailed for aiding 60 in retention of the bristle-carrying head member, later described.

> at the opposite ends of the recess and they are provided with rectangular shaped sockets 9 65 and 10 opening into the end walls of the re-

details of structure, the preferred form of vided with slots or grooves 11 and 12 which 20 which is illustrated in the accompanying intersect with the sockets 9 and 10 on the 70 median line of the head portion of the handle Fig. 1 is a perspective view of a tooth brush member. The slots 11 and 12 preferably constructed in accordance with my invention. extend to the depth of the recess 4 to receive Fig. 2 is a similar perspective view of the tongues on the bristle-carrying member here-

The head portion of the handle member is ber with the head portion of the handle mem- also provided with spaced longitudinally extending slots 13 and 14 extending through Fig. 3 is a perspective view of the brush the head in longitudinal alignment with the slots 11 and 12. The side walls 15 of the 80 slots 13 and 14 are provided with arcuate Fig. 4 is an enlarged vertical sectional view notches 16 and 17 to form openings for rethrough the head portion of the handle mem- ceiving anchoring pins on the bristle-carry-

The bristle-carrying member is best illus- 85 trated in Figs. 3 and 8 and comprises a substantially rectangular shaped block 18 pref-Fig. 6 is a plan view of the head portion erably formed of the same material from of the handle member illustrating the appli- which the handle member is constructed and is of a shape complementary to the recess 4 90 Fig. 7 is a detail perspective view of a de- formed in the head portion of the handle member so that when the block 18 is received Fig. 8 is a detail perspective view of a in the recess, the sides and ends thereof will align with the sides and ends of the recess to fill out the head portion of the handle and 95 Referring more in detail to the drawing: form a structure having a smooth contour

as celluloid, amber, or similar compositions reduced extensions 19 and 20 complementary

thereof are provided with tongues 21 and 22 engageable in the slots 11 and 12 to assist in anchoring the bristle-carrying member in the handle member.

Extending laterally from the back of the bristle-carrying member are pins 23 and 24 for engaging in the openings formed by the notches 16 and 17 in the head portion of the handle member to cooperate with the tongues 10 21 and 22 to retain the bristle-carrying member.

The bristle-carrying member carries a plurality of rows of bristles 25, preferably three in number, and the end bristles of the center 15 row are preferably anchored in the reduced portions 19 and 20 of the block 18. The openings formed by the notches 16 and 17 are preferably smaller in diameter than the diameter of the pins 23 and 24 so that the pins 20 slightly spread the slots and are gripped by the side walls of the notches, the resiliency of the material from which the handle member is constructed allowing sufficient expansion to permit ready reception of the pins.

In order that the bristle-carrying member may be readily grasped to aid in its removal from the handle member, the head portion of the handle adjacent the sides of the recess 4 is provided with arcuate recesses 26 and 27.

In Fig. 7 is illustrated a massage pad 28 preferably comprising a plurality of juxtaposed layers of cellulose or the like having 35 the bristle-carrying member is removed. The adapted for seating in said sockets to fric- 100 slots or grooves 11 and 12 of the handle mem- member against twisting and lateral thrust. 40 the tongues 29 and 30 and the slots 13 and yieldable head portion provided with a re- 105 14 to retain the pad.

described, the bristle-carrying member may be through from the base of the recess provided 45 gripped between the thumb and finger so that with arcuate enlargements, and having sock- 110 50 dle is formed allows the dovetailed portions of the recess to open sufficiently to allow passage of the block carrying the bristles.

The pad may then be applied to the head 55 ceived in the slots 11 and 12 and the tongues 29 and 30 in the slots 13 and 14. When the pad is moistened it expands sufficiently to retain it in the slots in the handle member. When the bristle-carrying member is to be re-60 placed, the pad may be withdrawn from the handle member and the bristle-carrying member pressed into the recess 4 so that the pins enter the openings formed by the notches and

and 12, respectively, the sides of the head portion adjacent the slots 13 and 14 yielding sufficiently to permit reception of the pins and tightly grip them to prevent accidental displacement of the bristle-carrying member.

What I claim and desire to secure by Let-

ters Patent is:

1. A brush including a handle having a head portion of yieldable material provided with a recess in one of its faces forming a 75 seat for a removable head member, the head portion of the handle having a slot extending therethrough from the base of the recess and having sockets at the ends of the recess, and a head member including a body seated 80 in said recess having a projection adapted to spread the head portion of the handle upon insertion into said base slot and having end portions adapted for seating in said sockets to frictionally retain the head member on 85 the head portion of the handle and brace said head member against lateral thrust.

2. A brush including a handle having a head portion of yieldable material provided with a recess in one of its faces forming a 90 seat for a removable head member, the head portion of the handle having spaced slots extending therethrough from the base of the recess and having sockets at the ends of the recess, and a head member including a body 95 seated in said recess having projections adapted to spread the head portion of the handle tongues 29 and 30 projecting from one edge upon insertion of said projections into said thereof to engage in the slots 13 and 14 when slots, the head member having end portions massage pad is preferably of sufficient length tionally retain the head member on the head so that the ends thereof are received in the portion of the handle and brace said head

ber, as illustrated in Fig. 3, to cooperate with 3. A brush including a handle having a cess in one of its faces forming a seat for a To remove the bristle carrying member of removable head member, the head portion of a tooth brush constructed and assembled as the handle having slots extending therethe finger nails can enter in the recesses 26 ets at the ends of the recess, and a head memand 27 to draw the bristle-carrying member ber seatable in said recess having pins adaptfrom the head portion of the handle. The re- ed to spread said head portion upon prosiliency of the material from which the han- jection of said pins into the enlarged portions of said slots, the head member having 115 end portions adapted to seat in said sockets to frictionally retain the head member on the head portion of the handle and brace said portion of the handle so that its ends are re- head member against twisting and lateral thrust.

4. A brush including a handle having a head portion of yieldable material provided with a recess in one of its faces forming a seat for a removable head member, said head portion having slots extending therethrough 125 from the base of the recess and provided with arcuate enlargements, and having sockets at the ends of the recess including reduced exthe reduced extensions and tongues 21 and tensions, and a head member seatable in said 65 22 enter the sockets 9 and 10 and the slots 11 recess having pins adapted to spread said 130

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head portion upon projection of said pins into the enlarged portions of said slots, said head member having shouldered end portions adapted to seat in said sockets and the exten-5 sions thereof to frictionally retain the head member on the head portion of the handle and brace the head member against twisting and lateral thrust.

5. A brush including a handle having a 10 head portion of yieldable material and provided with a recess and with an enlongated slot in said recess, and a head member adapted to seat snugly in said recess and having a projection of slightly greater width than 15 said slot for spreading the slot when engaged therewith to frictionally retain the head

member on said handle member.

6. A brush including a handle having a head portion of yieldable material and pro-20 vided with a recess and with spaced elongated slots in said recess, an a head member adapted to seat snugly in said recess and having spaced projections of slightly greater width than said slots for spreading the slots when 25 engaged therewith to frictionally retain the head member on said handle.

In testimony whereof I affix my signature. CARROLL E. DODSON.