Nov. 16, 1926. 1,607,564

M. RABB

FOLDING COMB

Filed March 23, 1926

Fig. 1,

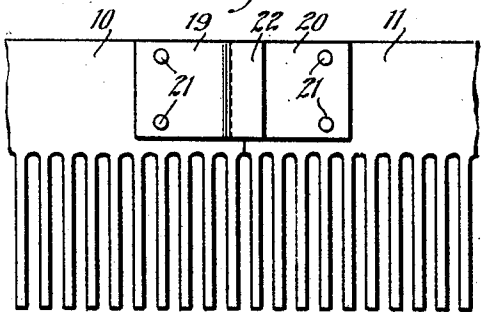


Fig. 2,

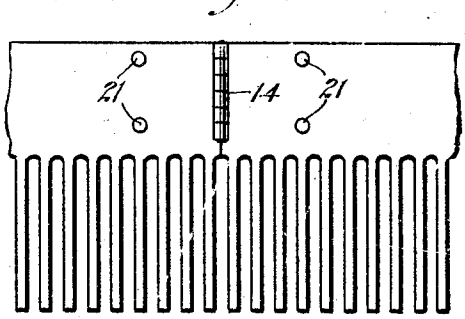


Fig. 3,

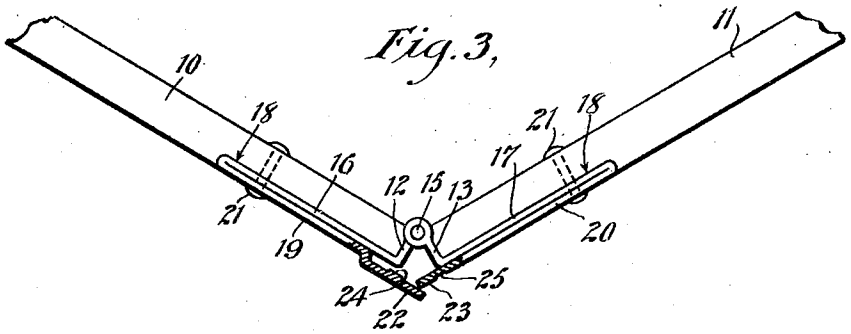


Fig. 4,

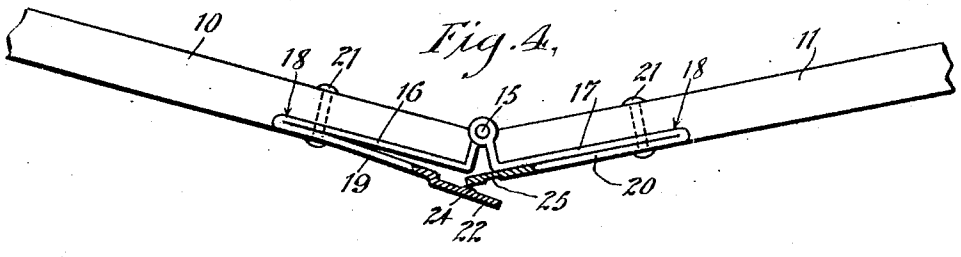
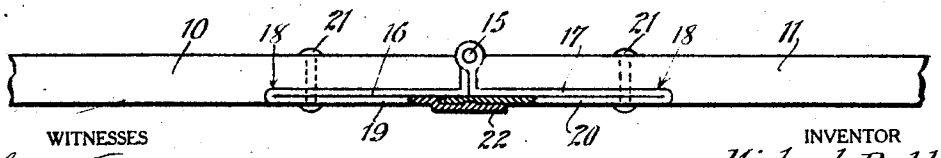


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

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FOLDING COMB.

Application filed March 23, 1926. Serial No. 96,726.

This invention relates to folding combs, and has particular reference to a locking hinged joint for connecting the sections of a folding comb or other analogous article, the same being in the nature of an improvement over a similar invention set forth in my prior United States Letters Patent No. 1,579,143, granted on March 30, 1926.

In the prior patent, the locking means for retaining the comb sections in opened condition necessitated a separate shifting operation, whereas the present invention comprehends an improved locking joint or hinged connection for the sections of the folding comb which functions to automatically lock the sections in opened relation when they are swung to an opened condition, thereby eliminating the necessity of manipulating or shifting locking devices as in the previous case.

More specifically, the invention comprehends a hinge connection for the comb sections in which the leaves are formed with resilient extensions adapted when the sections are opened to overlap and requiring a deflection of the overlapping portions to swing the sections from an opened to a closed relation, whereby said sections are rigidly maintained in an opened condition against accidental closing.

The invention furthermore comprehends in a folding comb, a locking hinged joint or connection which is comparatively simple, yet strong and durable in its construction and highly efficient in its purpose.

In the drawings—

Figure 1 is a fragmentary front view of a sectional comb equipped with a locking hinged joint constructed in accordance with the invention;

Fig. 2 is a rear view thereof;

Fig. 3 is a plan view thereof illustrating the sections partially folded;

Fig. 4 is a similar view illustrating the engagement of the locking elements when deflected and immediately prior to their final locking engagement;

Fig. 5 is a similar view illustrating the comb sections fully opened with the locking elements in fully engaged locking relation.

Referring to the drawings by characters of reference, 10 and 11 designate, respectively, a pair of comb sections which are adapted to be connected for swinging movement from an end-to-end alined opened relation to a side-by-side parallel or closed relation. The means for connecting the sections and for locking the same in their end-to-end alined open relation consists of a hinge including a pair of leaves 12 and 13 formed with alined interengaging knuckles 14 at one end of each leaf, through which knuckles a hinge pin 15 extends. The leaves 12 and 13 are respectively provided with an angularly bent portion 16 and an angularly bent portion 17 which lie within the rabbeted portions 18 of the comb sections, the leaf portions 12 and 13 extending over the rabbeted confronting ends of the comb sections 10 and 11. The angular portions 16 and 17 are, respectively, formed with reversely bent overlying terminals 19 and 20 through which rivets or other attaching devices 21 extend for securing the same to the comb sections. The extremity 22 of the terminal 19 is offset outwardly approximately the thickness of the material from which the terminals are formed and a portion of said extremity extends beyond the end of the section and the pivot pin 15. The extremity 23 of the terminal 20 extends approximately a similar distance beyond the end of its comb section and the pivot pin 15. The material from which the terminals 19 and 20 and extremities 22 and 23 are formed, is resilient, and the position or arrangement of said terminals and extremities is such that when the comb sections are swung from a folded relation to an opened relation the said extremities will interengage to rigidly maintain the sections in an opened relation, and will necessitate a deflection or flexing of the terminals when opening or closing the comb sections. In order to further augment the locking action set up by the interengagement of the extremities 22 and 23, when the comb sections are opened to an alined or end-to-end relation, the said extremities are formed in their confronting faces, respectively with a projection 24 and a complementary keeper opening 25. Under this construction and arrangement, it is obvious that a locking joint or hinged connection for the sections of folding combs has been devised which automatically functions to maintain the sections in opened relation when the same are swung to such a position, and which is automatically disengaged when the sections are swung at an angle to each other.

It is to be understood that within the scope

of the invention the locking terminals and their extremities may be made as a separate part from the hinge although preferably the same are constructed as an integral part of the hinge leaves.

What is claimed is:

1. A folding comb, including a plurality of hingedly connected sections, and interengaging resilient elements for retaining the sections in opened alined relation.

2. A folding comb, including a plurality of hingedly connected sections, and means for retaining the sections in opened alined relation, comprising a pair of resilient elements projecting from the adjacent ends of the sections and adapted to be flexed into overlapping relation upon opening movement of the comb sections.

3. A folding comb, including a plurality of hingedly connected sections, and means for retaining the sections in opened alined relation, comprising a pair of resilient elements projecting from the adjacent ends of the sections and adapted to be flexed into overlapping relation upon opening movement of the comb sections, said elements being formed as integral extremities of the leaves of the hinged connection between said comb sections.

4. A folding comb, including a plurality of hingedly connected sections, and means for retaining the sections in opened alined relation, comprising a pair of resilient elements projecting from the adjacent ends of the sections and adapted to be flexed into overlapping relation upon opening movement of the comb sections, said overlapping elements having complementary locking means on their confronting faces adapted to interengage when overlapped.

5. A folding comb including a plurality of sections, and a hinged connection therebetween permitting of the swinging of the same from a folded side-by-side relation to an open end-to-end relation, said hinged connection including resilient means forming an integral part thereof for maintaining the sections in opened alined relation against accidental closing.

6. In a folding comb including a plurality of hingedly connected sections, coacting means on said sections operable by the swinging of the sections in a plane perpendicular to the axis of the hinge into an opened alined relation for rigidly retaining said sections in the opened alined relation against accidental closing movement.

7. In a folding comb including a plurality of hingedly connected sections, coacting meas on said sections operable by the swinging of the sections in a plane perpendicular to the axis of the hinge into an opened alined relation for rigidly retaining said sections in the opened alined relation against accidental closing movement, one of said means riding over the other to an interlocking engagement therewith.

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