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J. A. DAVIS METHOD OF BINDING BOOKS

Filed Jan. 19, 1927

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METHOD OF BINDING BOOKS.

Application filed January 19, 1927. Serial No. 162,061.

My invention relates to a method of bind- the practices of my improved method. The ing together the signatures, sections or leaves book is composed of a plurality of sections, forming a book, and it has especial reference signatures or leaves 1 assembled or superto a method of simplifying the book binding posed to form a book, and in carrying out 5 art, reducing the cost of same and at the my improved method all of the assembled 60 same time producing bound books which will sections, signatures or leaves are operated withstand reasonably hard usage. upon as a unit instead of singly. The object of the present invention is to In the practice of my invention the leaves, provide a simplified method by which the sections or signatures are assembled in the 10 signatures, sections or leaves composing a proper sequence and the back edges thereof 65. book may be securely bound together en alined. A plurality of incisions 2 are then masse and in which such media as cords, made across the back of the alined signatures threads, or other supplemental bonding in- and inwardly from the edges thereof, as strumentalities may be wholly eliminated shown in Figure 2, the incisions being made 15 without impairing reasonable security of the at spaced intervals. These incisions are 70 made preferably in an oblique or a diagonal bond. The invention consists in effecting an in- direction across, and preferably extend interlock of the various signatures, sections or wardly at an angle to, the back of the asleaves whereby no additional bonding me- sembled book signatures, as shown at 3, and produce free or loose ends or tongues of 75 20 dium is required to hold together the sections, signatures or leaves in their bound re- paper 4. As seen in Figure 2, these free lation; and in its broader aspect the inven- or loose ends 4 at one side of each of the tion consists in bending, flexing or displac- plurality of incisions 2 are deflected or bent ing portions of the signatures, sections or from the plane of the signatures, sections or 25 leaves assembled and alined to form a book, leaves, and out of alinement with the ends 5 80 from their normal plane in a plurality of of the signatures, sections or leaves on the spaced zones, along the longitudinal edge of opposite sides of the incisions. The free or the assembled signatures, sections or leaves, loose ends 4, which are deflected are then ' so that the bent or deflected portions of bound and held together by glue or cement which is applied to the back of the book and 85 30 leaves, sections or signatures interlock and, also into the incisions 2, the glue, paste or when glued or cemented, provide a secure other binder firmly uniting the free and bond therefor without any tie or other bondloose ends 4 and maintaining them in their ing supplement. In a specific sense, the invention consists deflected condition and position. In this 35 of assembled and alined signatures, sections wise the glue or other binding fluid which 90 is worked into the incisions not only unites or leaves having a plurality of spaced inthe back edges of the signatures or sections, cisions extending inwardly from the back but also the deflected free ends, or loose thereof; the loose edges, ends, tongues, or the free leaf portions of the sections, signatures tongues of the same adjoining the several in-40 or leaves at one side of the incisions being cisions, thereby causing the deflected ends 4 95 to be firmly interlocked, and distributing the deflected from the plane of the signatures, strains, incident to handling and opening sections or leaves and then glued to provide a secure interlock whereby the finished book of the book, over a wide area and obviating may be easily opened without disturbing the the need of any supplemental tie as cords or threads. 100 45 bond. 🐃

A book made in accordance with my in- What I claim is: vention is illustrated in the accompanying drawing in which Figure 1 is a perspective signatures, which consists in alining the sigview, and Figure 2 is an enlarged frag- natures to form a book unit, in making di-50 mentary perspective view showing my invention.

Referring in detail to the form of the invention disclosed in the preferred embodiment thereof in the drawing, A indicates adjacent ends of the incisions. 55 generally a book bound in accordance with

1. The method of binding together book agonal incisions in the back of the book and 105 deflecting the tongues adjoining the several incisions from the plane of the signatures, and in gluing the back of the book and the

2. The method of binding together signa- 110

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tures which consists in alining the signa-tures, in making incisions in and at an an-gle to the back of the book, in bending at natures at one side of the incisions being 10 an angle to the plane of the signatures the ⁵ free ends of the signatures at one side of the incisions, and in gluing the back of the book and the adjacent ends of the incisions. ¹ bent from the plane of the signatures and glued together. In testimony whereof I have set my hand. JOHN A. DAVIS.

 $\sum_{i=1}^{n}$

In testimony whereof I have set my hand. JOHN A. DAVIS.

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