

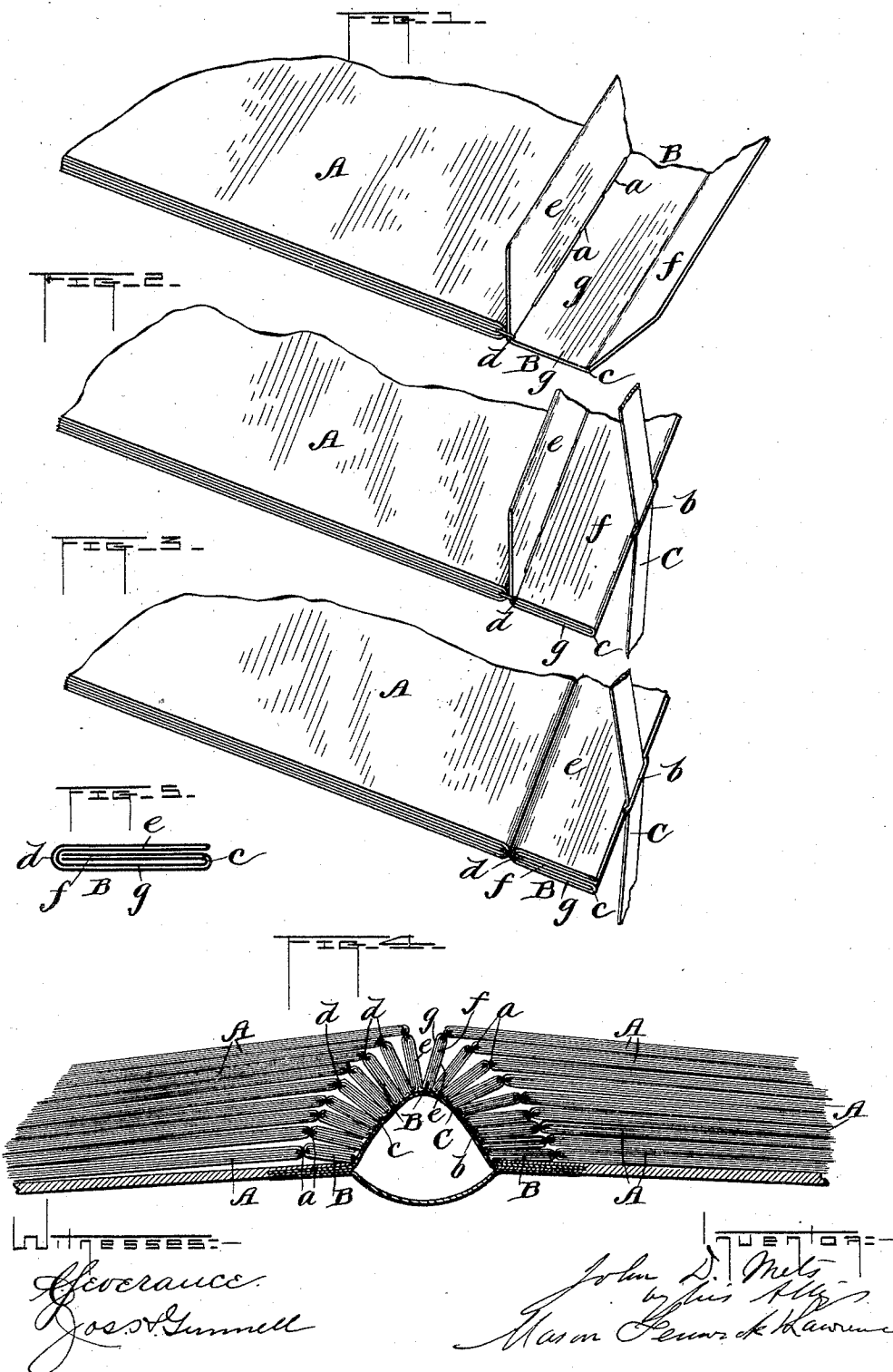
(No Model.)

J. D. METS.

GUARD FOR BLANK OR OTHER BOOKS.

No. 487,191.

Patented Nov. 29, 1892.



UNITED STATES PATENT OFFICE.

JOHN D. METS, OF DUBUQUE, IOWA.

GUARD FOR BLANK OR OTHER BOOKS.

SPECIFICATION forming part of Letters Patent No. 487,191, dated November 29, 1892.

Application filed August 20, 1892. Serial No. 443,627. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. METS, a citizen of the United States, residing at Dubuque, in the county of Dubuque and State of Iowa, have invented certain new and useful Improvements in Guards for Blank or other Books; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates especially to blank-books which when opened hold the exposed leaves straight and flat; and it consists in an improved manner of constructing the guards of a book, such as was patented to me May 26, 1891, No. 453,123, whereby the guards can be made separate from one another and with two folds, so as to be adapted to be stitched midway between their two outer surfaces to the back edge of the sections of the book and to be sewed to the bands at their rear edges at points between the intermediate portions of the guards and one of the outer portions thereof, this construction allowing of an intermediate inwardly-turned portion being provided between the inner and outer folds of the guard and of the several guards of a book being glued to the binding and together at the rear edges of the folds by the glue used in the binding operation, and thus firmly secured in place, as will be hereinafter described.

In the accompanying drawings, Figure 1 is a book-section in perspective, illustrating my guard as sewed to the section and before the portions of the guard are folded upon one another. Fig. 2 is a similar view illustrating my guard with one of its portions folded down after being sewed to the bands. Fig. 3 is a similar view illustrating the guard with all of its portions folded down and the book-section ready to be bound. Fig. 4 is a section of a book complete constructed with guards according to my invention, and Fig. 5 is a detail view of the improved guard as seen from its edge.

A in the drawings represents a book-section; B, the guards; C, the bands; *a*, the stitching by which the guards are fastened to the sections, and *b* the sewing by which the guards, with sections attached, are con-

nected to the bands. As seen in the drawings, each guard B has a thickness exactly equal to a section A. The guards are formed of paper or other suitable material by folding at *c* and *d*, so as to form three portions *e*, *f*, and *g* of about equal size, and which lie against one another, the intermediate portion *f* extending from the fold *c* to the fold *d* a loop being presented at *c* and also at *d*. The stitching-thread *a*, by which the guard is attached to the section A, is passed through the loop at *d*, and the sewing-thread *b*, by which the guard is connected to the bands C, is passed through the guard at the loop *c*, as illustrated in the drawings.

My book-guard differs from all other book-guards in that one edge of the inturned portion *f* is opposite the back edge of the section A and the edge of the outturned portion *e* is opposite the bands and that said portion *f* is between the portions *e* and *g* of the guard.

In constructing my guards paper of a thickness equal to two leaves of a section may be employed, so that when it is twice folded to form a guard the said guard will be just equal in thickness to a section, or the paper may be of the thickness of a single leaf and such paper increased in thickness by doubling it or folding one portion upon another, as shown in the drawings, it only being essential that the thickness of the guard shall be equal to the united thickness of the six or several leaves of a section.

In the manufacture of books in accordance with my Patent No. 453,123 an objection arises on account of the extra-sized paper sheets required to make the guards integral. Therefore I have invented the guard herein described and shown for the purpose of avoiding such objection.

In carrying out my invention the guards B, after being stitched to the section A in the condition shown in Fig. 1, are, before the portion *f* is folded down, sewed to the bands C, and then the portion *f* is folded down upon the portion *g*, as illustrated in Fig. 2, and thereupon the portion *e* is folded down upon the intermediate portion *f*, as illustrated in Figs. 3 and 5. The last-folded portion extends to the very edge at the back of the guard, so as to be precisely even with the back edge, and thus when the back of the book

after being sewed is glued the glue will penetrate between the guards and the edges of the folds, and they will be glued together just at these edges and also held firmly in their
5 places.

My present invention forms a perfect and handsome guard and when applied in proper manner leaves only a very small or narrow opening between in the sections, and while
10 these guards may be made of any material I consider paper the best for the purpose. The guards are made equal in thickness with the sections without any additional filling.

I am aware of the Patent No. 471,457, and
15 do not regard the same as similar to my construction of guard, as my guard has the intermediate portion *f* turned in toward the stitching bowed portion *d* and the portion *e* carried back to the sewing bowed portion *c*,
20 which is a totally-different construction and mode of operation from said patent.

What I claim as my invention is—

1. The guard B, folded at *c* and *d* and having an intermediate portion *f* facing the back
25 edge of the section and an outer folded portion *e*, with its edge facing the bands, the said guard forming sewing and stitching loops at *c* and *d* and being attached at *d* to the book-

section and at *c* to the bands, and when thus attached having its broad surfaces on a plane
30 with the outer surfaces of said book-section, substantially as described.

2. The method of forming the guards for books and attaching them to the book-sections and to the bands by twice folding the
35 paper or other material of which each guard is made, then attaching them to the sections by stitching at one of the joints of the guards and attaching them to the bands by sewing at the other joint of the guard, these stitching
40 and sewing operations being effected as follows: First, the guards are sewed to the sections before any portion is turned down, then before the portions which are to form the intermediate portions of the guards are turned
45 down the guards are sewed to the bands, and thereupon the intermediate portions are folded down and the outer portions of the guards folded down upon the said intermediate portions, substantially as described.
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In testimony whereof I hereunto affix my signature in presence of two witnesses.

JNO. D. METS.

Witnesses:

M. M. CADY,
J. C. WEAVER.