

D. E. HUNTER.
DUST PROOF JOINT.
APPLICATION FILED SEPT. 7, 1909.

968,850.

Patented Aug. 30, 1910.

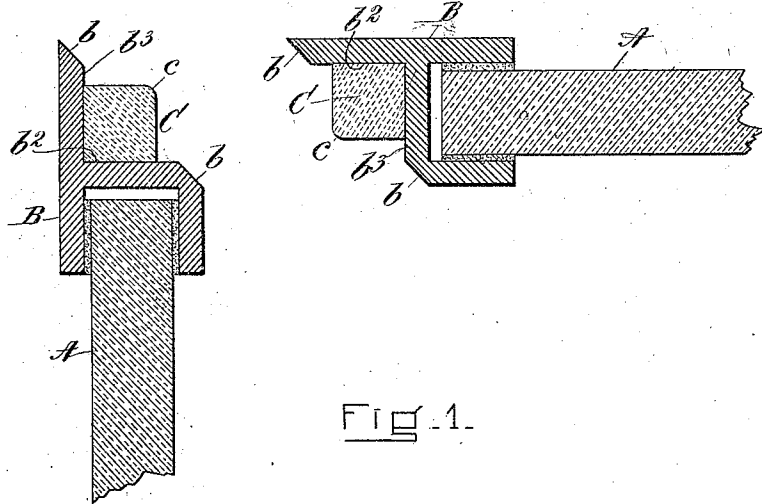


Fig. 1.

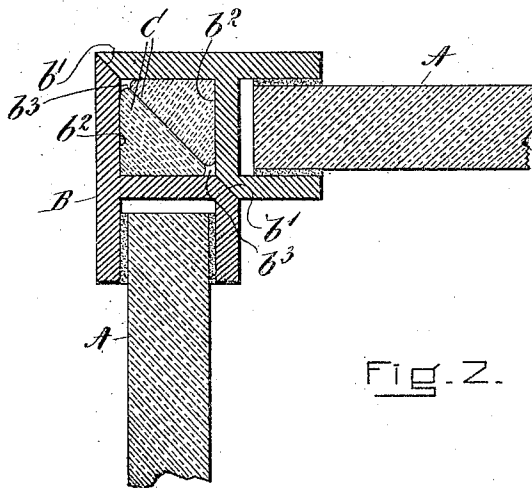


Fig. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID E. HUNTER, OF CAMBRIDGE, MASSACHUSETTS, ASSIGNOR TO LIBRARY BUREAU,
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DUST-PROOF JOINT.

968,850.

Specification of Letters Patent. Patented Aug. 30, 1910.

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To all whom it may concern:

Be it known that I, DAVID E. HUNTER, a citizen of the United States, and resident of Cambridge, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Dust-Proofing Joints, of which the following is a specification.

This invention relates to a dust-proofing joint, and in the embodiment herein shown and described the invention is applied to a joint between adjacent panels particularly designed for a museum cabinet or case.

In the accompanying drawings which illustrate one embodiment of my invention,—Figure 1 is a horizontal sectional view of two panel members adapted to form with each other a miter or bevel joint containing my improved dust-proofing device; and Fig. 2 is a similar view of said members assembled.

The panel members A are provided each with a channeled margin piece B, the edge of the panel member secured in the channel of the margin piece. The outer abutting face of each margin piece is beveled as shown at *b*, so that when two such bevel faces are placed together in the position shown in Fig. 2, a miter or bevel joint *b'* is formed. In the joint-making face of each member is a recess *b²* which provides a lodgment for the packing strips. The two opposed margin pieces are preferably identical in cross section as shown.

Secured in each recess *b²* is a packing strip C consisting of a strip of compressible dust-proofing material, such as felt, each strip provided with a normally salient portion which extends beyond the planes of the joint-making faces *b*, as shown at *c*. Each packing strip also lies clear of the edges of its respective recess, thus leaving a space or clearance *b³* between the strips and the joint-making faces, so that no part of the packing strip or the fibers thereof will be forced into the joint *b'* when the two members are assembled, nor interfere with the perfect engagement of the joint making faces, as might result if the packing strips extended to the edges of the recesses, or if a single

packing strip were used large enough to serve as an effective dust-proofing.

When the two joint members above described are juxtaposed as shown in Fig. 2 the salient portions *c* of the two packing strips will make contact and be compressed forming between them a dust-proof joint. The compressive contact between the strips will cause them to spread out laterally to some extent, but by reason of the clearance *b³* between the strips and the edges of their respective recesses no part of the material of the strips will be forced into the joint *b'*.

I claim:

1. In a dust-proofing joint, two members provided with mutually adapted meeting surfaces, each member having in its joint-making face a longitudinal recess, and a strip of compressible material lodged in each recess, each strip when uncompressed having a normally salient portion protruding beyond the joint-making face and lying clear of the meeting edges between the surface of the recess and the surface of the joint-making face, said strips adapted, when compressed, to permit said meeting surfaces of the two members to engage each other in a close fitting joint.

2. In a dust-proofing joint, two members adapted to form with each other a miter or bevel joint provided with mutually adapted meeting surfaces, each member having in its joint-making face a longitudinal recess, and a strip of compressible material lodged in each recess, each strip when uncompressed having a normally salient portion protruding beyond the joint-making face and lying clear of the meeting edges between the surface of the recess and the surface of the joint-making face, said strips adapted, when compressed, to permit said meeting surfaces of the two members to engage each other in a close fitting joint.

Signed by me at Boston, Massachusetts, this 31st day of August 1909.

DAVID E. HUNTER.

Witnesses:

ROBERT CUSHMAN,
JOSEPHINE H. RYAN.