A. F. WALTHER.

SOUND INSULATING SUPPORT.

APPLICATION FILED MAR. 26, 1919.

1,350,349.

Patented Aug. 24, 1920.

2 SHEETS—SHEET 1.

Fig. 1

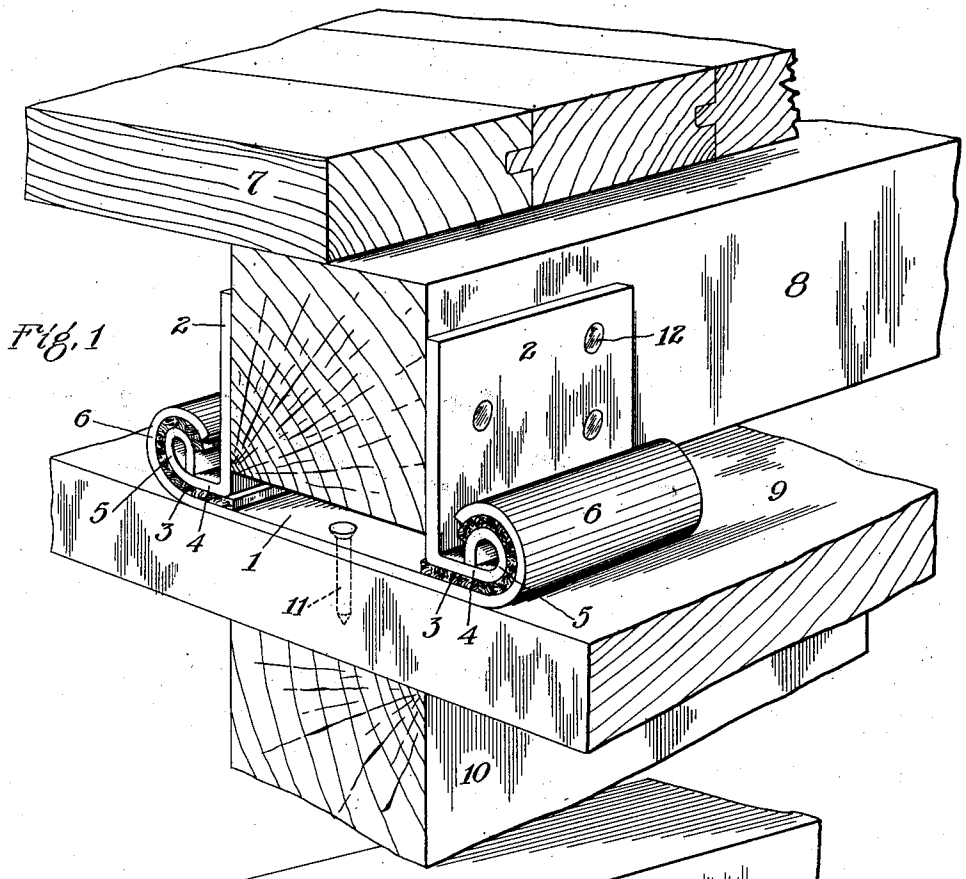
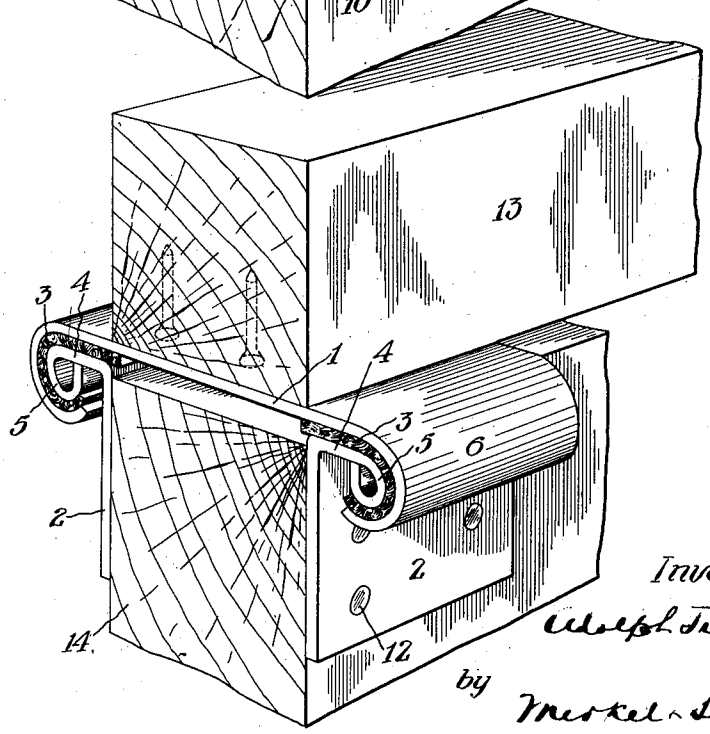


Fig. 2



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2 SHEETS—SHEET 2.

Fig. 3

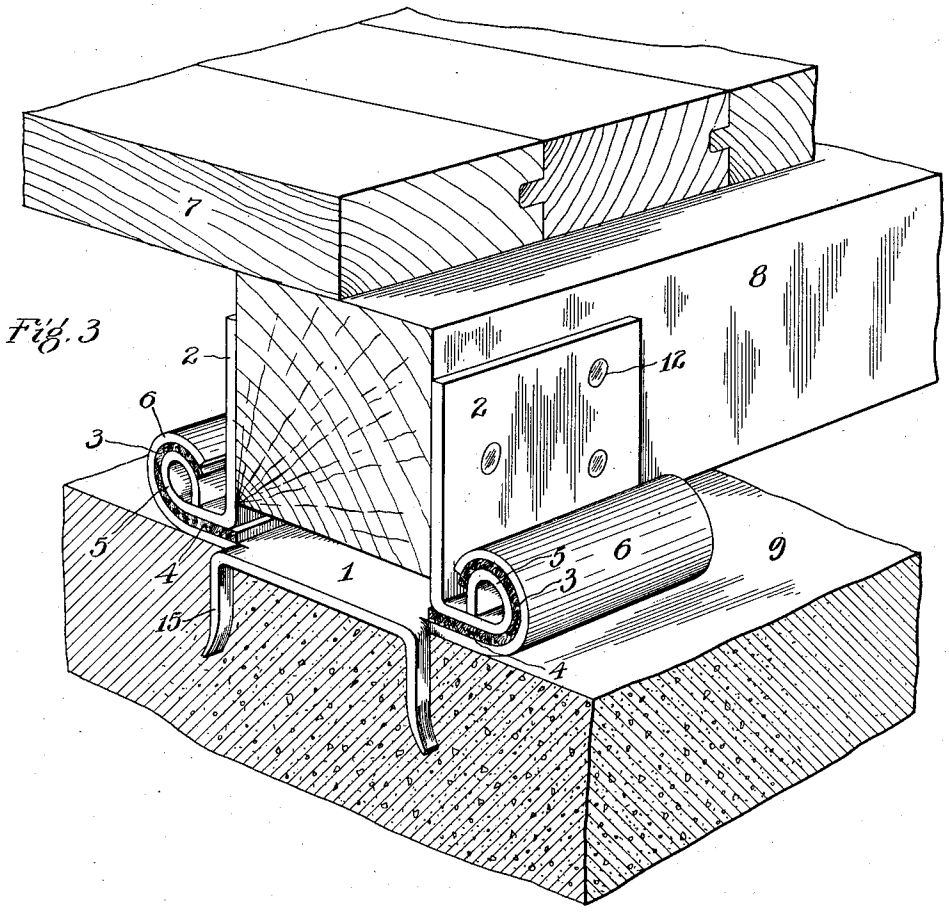
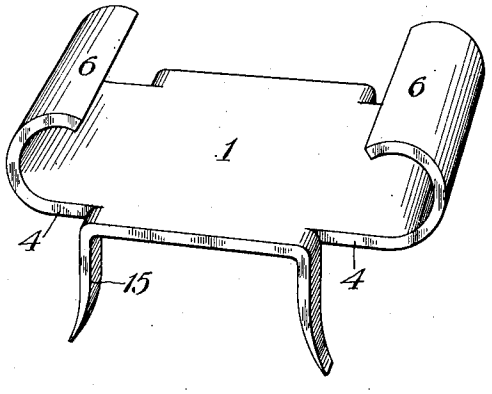


Fig. 4



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UNITED STATES PATENT OFFICE.

ADOLPH FRED WALTHER, OF CLEVELAND, OHIO.

SOUND-INSULATING SUPPORT.

1,350,349. Specification of Letters Patent. Patented Aug. 24, 1920.

Application filed March 26, 1919. Serial No. 285,332.

To all whom it may concern:

Be it known that I, ADOLPH FRED WALTHER, a citizen of the United States, resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented new and useful Improvements in Sound-Insulating Supports, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention relates to sound insulating supports for building elements, its object being to provide a support of the above-mentioned character which will be economical of manufacture and efficient in the performance of its function, and at the same time permit elements for which it forms a connection to be readily adjusted.

The said invention consists of means hereinafter fully described and particularly set forth in the claims.

The annexed drawings and the following description set forth in detail certain means embodying my invention, the disclosed means, however, constituting but one of various mechanical forms in which the principle of the invention may be employed.

In said annexed drawings:

Figure 1 represents a perspective view of a fragmentary portion of a floor construction of which my improved support forms a part.

Fig. 2 represents a fragmentary perspective view of a different form of floor construction illustrating the manner of adapting my improved support thereto.

Fig. 3 represents a similar view, in which the sub-floor consists of concrete and illustrating a modified form of my support adaptable to this particular structure.

Fig. 4 represents a perspective view of the base portion of the modified form of support shown in Fig. 3.

Referring first to the floor structure shown in Fig. 1, the illustrated embodiment of my invention includes an insulating support comprising a base member 1 made of sheet steel and two side members 2, 2, extending angularly from said base member and usually at right angles. Interposed between this base-member and the two side members are two strips 3 of insulating felt or similar material. The lateral edge portions of each of the laterally extending legs 4 of the side members 2 are beaded as shown at 5, and the two lateral edge portions of the base member 1 are turned over to form beads 6 which inclose the beads 5 and the outer portion of the insulating felt strips 3, as clearly shown in the drawing. Apertures are formed in the angularly extending legs of the side members through which nails may be driven and similar apertures are formed in the base member all as indicated in Fig. 1 of said drawing.

The parts above-described are, of course, assembled before being applied to a building structure, and such assembly may, as will be readily understood, be effected in any approved manner and by any of many well-known means. When such assembly is completed the device consists of the base members, two side members projecting angularly therefrom, and insulating members interposed between said base and side members, all permanently secured to each other.

In Fig. 1 the above-described support is shown applied to a building floor structure comprising the finished floor 7, sleepers 8, the sub-floor 9 and the joists 10. In applying my invention to this type of structure, the required number of supports are secured to the upper surface of the sub-floor by means of nails 11, such securing being readily effected as will be understood. These supports are secured in alined rows, whereupon the sleepers 8 are laid in these rows respectively and secured by means of the nails 12 driven through the side members into such sleepers. Coincidentally with this step the sleepers may be adjusted or leveled and nails may be temporarily driven into the sleepers for the purpose, as will also be readily understood. After the sleepers have been leveled they are permanently secured in place, whereupon the finished floor 7 may be laid.

It will thus be seen that by means of the above-described device the sub-floor 9 is connected rigidly with the sleepers 8 but such connection is, in so far as sound travel is concerned, completely interrupted by the insulating felt strips 3, 3.

In Fig. 2, I have illustrated the manner of applying my invention to a building structure consisting merely of a primary member 13, and a secondary member 14, which might for instance be utilized in a side wall of a building.

Where the sub-floor is made of concrete, I provide a modified form of base member

such as is shown in Figs. 3 and 4, in which I cut away portions of the metal forming such base members to form a plurality of anchoring fingers 15 extending in the direction opposite that of the side members and preferably slightly curved as shown. These fingers form the means for fastening the base-members to the concrete and such fastening is effected by pressing the fingers into the concrete while the latter is soft.

Having fully described my invention, what I claim and desire to secure by Letters Patent is:

1. An insulating support for building elements, consisting of the combination of a base member having its lateral side portions bent inwardly; two side members extending angularly from said base member and having lateral portions respectively extending into the lateral turned-in portions of the base member; and sound-insulating material interposed between the adjacent parts of said side members and base member.

2. An insulating support for building elements, consisting of the combination of a base member having lateral upwardly turned-in side portions; two side members extending angularly from said base member, each having an outwardly extending portion surrounded by the lateral edge portions respectively of said base member; and sound-insulating material interposed between the adjacent surfaces of said base and side members.

3. An insulating support for building elements, consisting of the combination of a base-member; two angular side-members, the edge portion of one leg of each of which is beaded; and insulating material interposed between said base and side-members; the lateral edge-portions of said base-member being bent around the said beaded edge-portions so as to surround same and part of the interposed insulating material.

4. An insulating support for building elements, consisting of the combination of a base member having its lateral edge portions bent inwardly; two side members each provided with an angular leg, said legs extending respectively into inwardly bent over portions of said base member; and sound insulating material interposed between the angular legs of said side members and extending around and between the said legs on the inwardly bent portions of the base member.

Signed by me this 21st day of March, 1919.

ADOLPH FRED WALTHER.