

No. 650,290.

Patented May 22, 1900.

M. J. WIRT.
DEVICE FOR DEADENING NOISE.

(Application filed Feb. 17, 1900.)

(No Model.)

FIG. 1.

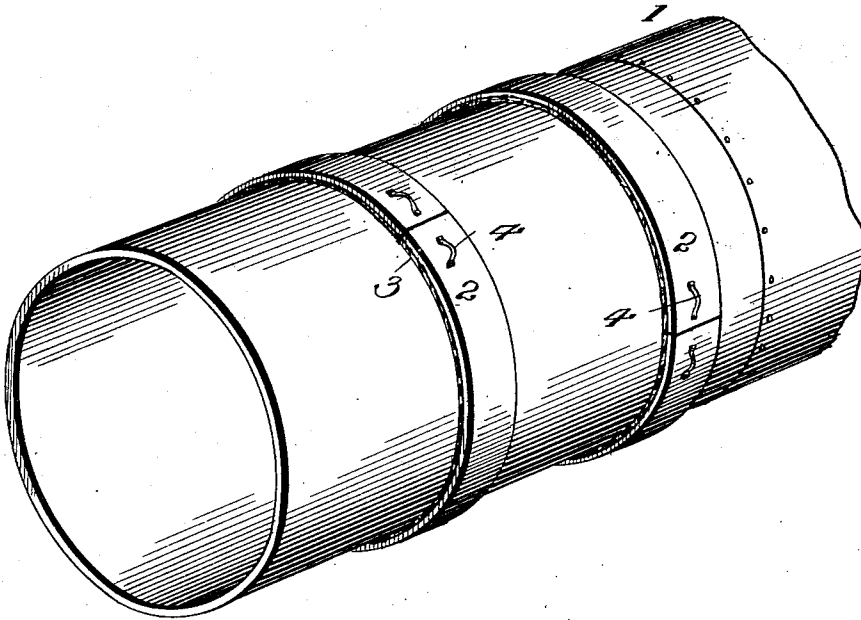
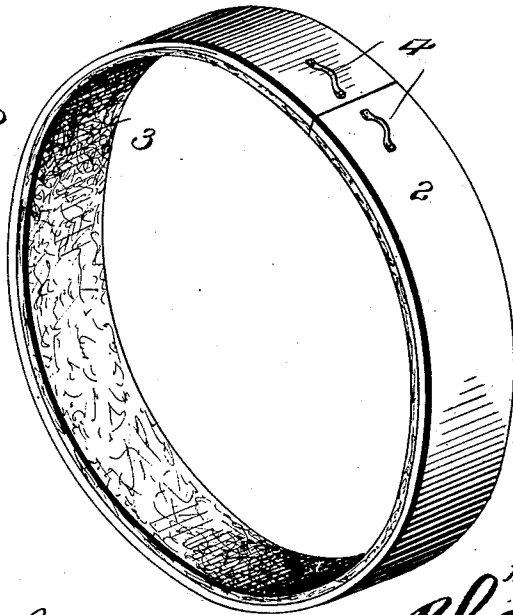


FIG. 2.



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UNITED STATES PATENT OFFICE.

MATTHIAS J. WIRT, OF SCOTLAND, INDIANA.

DEVICE FOR DEADENING NOISE.

SPECIFICATION forming part of Letters Patent No. 650,290, dated May 22, 1900.

Application filed February 17, 1900, Serial No. 5,634. (No model.)

To all whom it may concern:

Be it known that I, MATTHIAS J. WIRT, a citizen of the United States, residing at Scotland, in the county of Greene and State of Indiana, have invented certain new and useful Improvements in Noise-Deadeners; 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.

In the manufacture and working of articles formed of sheet and plate metal, particularly when riveting plates forming parts of a boiler, stack, or like article or when cutting the same by means of a cold-chisel or when pounding thereon for any purpose, the resultant noise is deafening and exceedingly objectionable to the workman and persons in the immediate vicinity of the work, and in the case of the workman such noise results injuriously to the auricular nerves and adjacent parts.

The purpose of this invention is to provide a simple contrivance to be applied to and used in connection with the work to deaden the sound by checking the vibration incident to the blow delivered thereupon.

In its simplest construction the device consists, essentially, of a base of a size and configuration according to the nature of the work in hand and a noise-deadening material applied to said base and adapted to be clamped against the work, so as to effect the desired results.

In the specific formation of the appliance it is constructed when feasible in such a manner as to encircle the work, and the base may be of spring material, so as to automatically grip the sides of the work and retain the noise-deadener in position without necessitating the employment of extraneous fastenings for this purpose.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and the drawings hereto attached.

While the essential and characteristic fea-

tures of the invention are necessarily susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the invention in its most general application. Fig. 2 is a perspective view of a noise-deadener of particular formation.

Corresponding and like parts are referred to in the following description and indicated in the views of the drawings by the same reference characters.

In order to illustrate the application of the invention, the same is shown in connection with a piece of work 1, which may be a boiler, a stack, or like article composed of a series of plates riveted together. For this class of work the contrivance is constructed so as to embrace the same, and appears in the form of a ring or band 2, preferably of spring metal or other suitable material and having upon the side adapted to lie adjacent to the work noise-deadening material 3, which may be leather, rubber, or packing of any nature. The purpose of the material 3, which is fibrous, is to absorb vibration, thereby preventing the accustomed ring incident to the delivery of a blow upon the boiler or other work when riveting, cutting with a cold-chisel, or pounding thereon. Grips 4 are located at the terminals of the ring or band 2 for convenience in spreading the same when applying it to or removing it from the work.

The most general application of the invention is in connection with boilers, stacks, and like articles. Hence the form illustrated has been selected, so as to give an adequate idea of the purpose and intent of the invention. The shape of the device will be varied according to the particular nature of the work in hand, so as to deaden the noise incident to delivering blows thereon.

Generally speaking, the appliance may be said to consist of a base provided upon the side intended to lie adjacent to the work with a noise-deadening material, the latter being clamped between the work and the base by any means found most convenient for the purpose.

The device is not a part of the work, but

is in the nature of an attachment to be applied to the work when operating thereon and to be detached therefrom, so as to be used again in connection with any like piece
5 of work.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A device for use in connection with sheet-
10 metal and boiler-plate work for deadening the noise, the same comprising a base and a fibrous or noise-deadening material applied to the base and adapted to be clamped between it and the work, substantially as set
15 forth.

2. A noise-deadening contrivance for use in connection with sheet-metal and boiler-plate work for deadening the noise, the same consisting of a ring or band, and a noise-
20 deadening material applied to a side of said ring or band and adapted to be clamped be-

tween it and the work, substantially as set forth.

3. An appliance for use in connection with sheet-metal and boiler-plate work for deaden- 25 ing the noise, the same consisting of a spring ring or band to automatically exert a pressure against the sides of the work, and a noise-deadening material applied to the ring or band and adapted to be clamped between it 30 and the work, substantially as set forth.

4. The herein-described noise-deadener comprising a spring-band provided at its ends with grips, and a noise-deadening material applied to the inner or concave side of the said 35 band, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MATTHIAS J. WIRT. [L. S.]

Witnesses:

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