To all whom it may concern:

Be it known that I, Christian W. G. Sodemann, a citizen of the United States, and a resident of St. Louis, Missouri, have invented certain new and useful Improvements in Dust-Collecting Shields for Heating-Radiators, of which the following is a specification.

My invention relates to a dust collecting shield for heating radiators, and has for its object to provide a deflecting shield to be adapted to steam radiators or hot water radiators, provided with means for collecting the dust which ascends in the current of heated air generated by contact of the atmosphere in the apartment with the heat radiators; and is an improvement upon United States Letters Patent No. 1,009,195, issued upon my application November 21, 1911.

In the drawings—Figure 1 is a perspective view of a device embodying my invention in place upon a radiator, a portion of the top of the deflector being broken away. Fig. 2 is a transverse vertical view in mid-section of the dust collecting trough and the upper portion of the deflector.

In the practice of my invention I employ the deflector 3 having the end walls 4 and 5 upon which the slab 13 rests. The trough 6 is provided with the finger catch 7 and the end bars 8, said bars 8 being contoured as shown in Fig. 2, having the flat bearing surface 9 at the rear extremity, and the curved bearing surface 10 on the upper edge of the bar 8 and toward the rear thereof, which bearing surfaces 9 and 10 alternately contact with the flat spring 11 which is secured to the inner face of the rear wall 12 of the deflector 3 (see Fig. 2). By means of the contact between the spring 11 and bar 8, the trough 6 is normally held closed with its front rolled edge 12 in close contact with the under surface of the top 5; so that the particles of dust arising from the coil 13 are carried over the rear of the trough 8, which is formed by the pintle 14, and are deposited in said trough 8.

When it is desired to remove the dust particles so accumulated in the trough 8, the trough is depressed by pressure exerted on the finger catch 7, so as to be thrown into the position indicated by dotted lines in Fig. 2, the bearing surface 9 being in contact with the face of the flat spring 11. The dust having been removed, the trough 8 is pulled slightly outward by pressure on the under side of the finger catch 7, when the pressure of the spring 11 will thrust it into its closed position illustrated in Fig. 2, and hold it there.

Having thus described my invention, what I claim as new and desire to have secured to me by the grant of Letters Patent, is—

1. In a dust collecting shield for radiators, the combination of a deflector, a trough pivotally mounted in the top of the deflector, a flat spring mounted on the inner side of the deflector, and a bar mounted in said trough and contoured at its rear end to have contact with said spring and by engagement with said spring to hold the trough in open or closed position.

2. In a dust collecting shield for radiators, the combination of a deflector adapted to be mounted on a radiator and having a rear wall, a top and two side walls; a dust collecting trough pivotally mounted transversely between the side walls of the deflector and having its outer edge normally in contact with the under surface of said top; a flat spring secured to the inner face of the rear wall of the deflector; and a bar forming an end of the trough and contoured to provide bearing surfaces to receive the pressure of said spring when the trough is in opened or closed position.

3. In a dust collecting shield for radiators, the combination of a deflector adapted to be mounted on a radiator and having a rear wall, a top and two side walls; a dust collecting trough pivotally mounted transversely between the side walls of the deflector and having its outer edge normally in contact with the under surface of said top; a flat spring secured to the inner face of the rear wall of the deflector; and a bar forming an end of the trough and contoured to provide bearing surfaces to receive the pressure of said spring to lock the trough in opened or closed position.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

Christian W. G. Sodemann.

Witnesses:

J. T. Hopkins,
N. E. Brockman.