A. ATKINSON.

RADIATOR SHIELD.

APPLICATION FILED JAN. 28, 1908.

903,266. Patented Nov. 10, 1908.

Fig. 1.

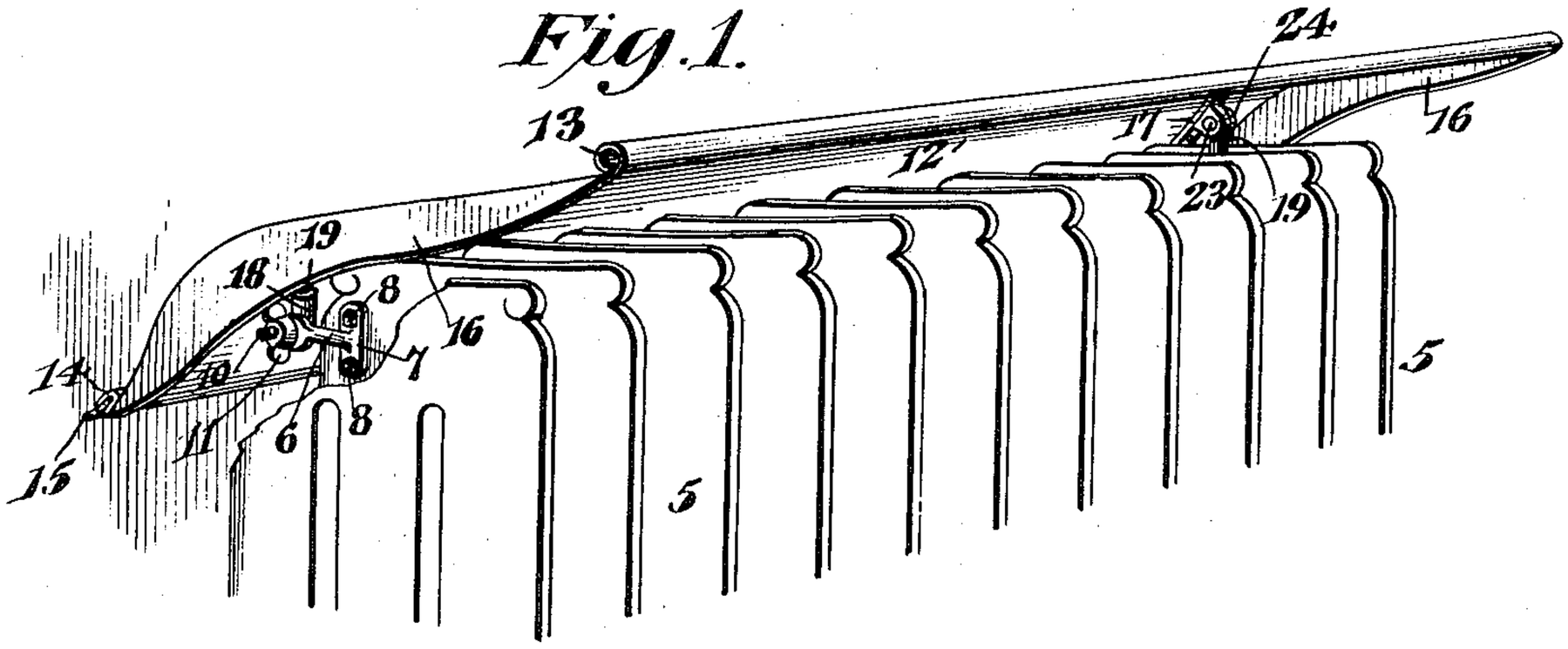



Fig. 3.

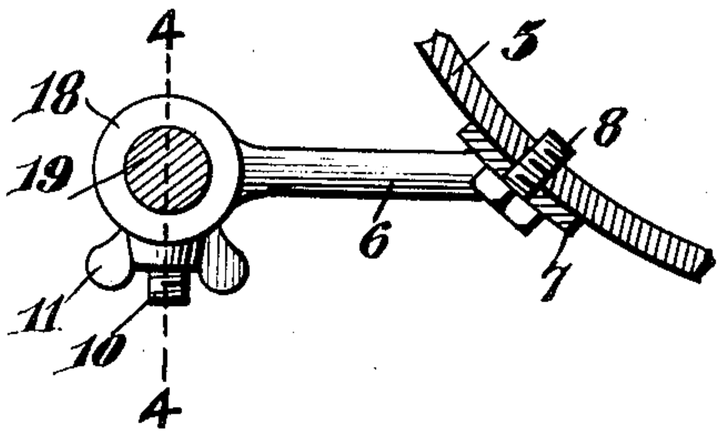



Fig. 4.

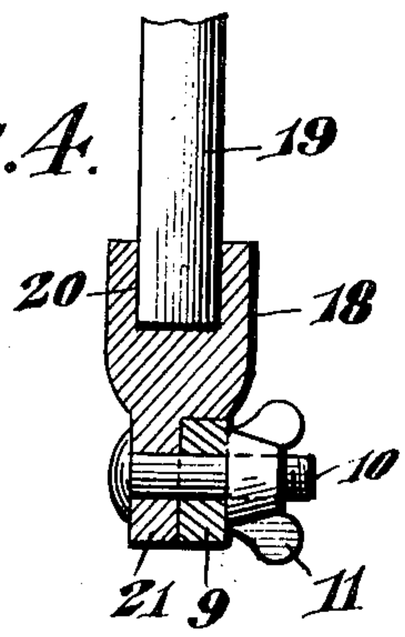
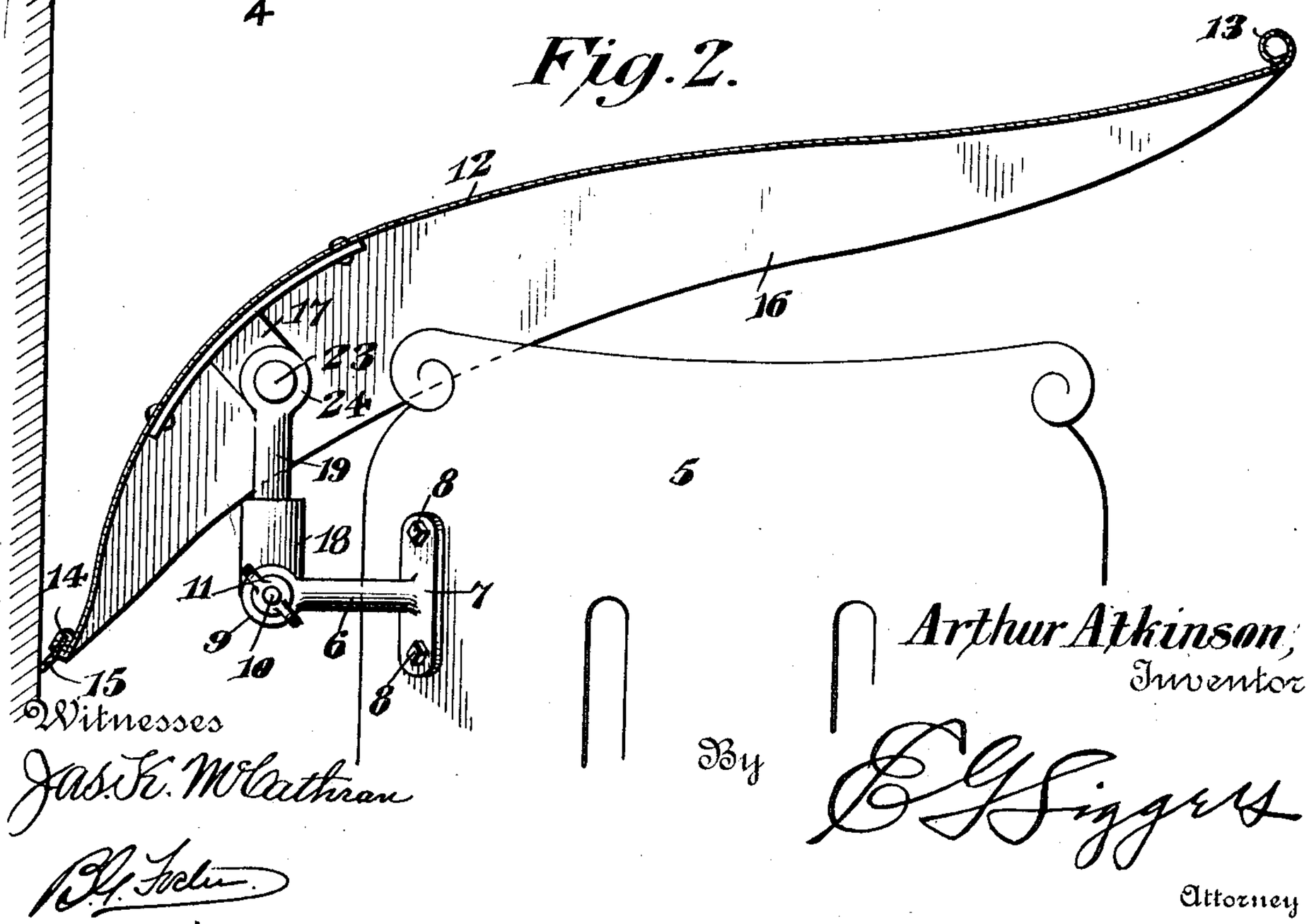



Fig. 2.




Witnesses

Jas. K. McCathran

B. F. Fiske

Arthur Atkinson,
Inventor

By E. G. Siggers

Attorney

# UNITED STATES PATENT OFFICE.

ARTHUR ATKINSON, OF DAVENPORT, IOWA.

## RADIATOR-SHIELD.

No. 903,266. Specification of Letters Patent. Patented Nov. 10, 1908.

Application filed January 28, 1908. Serial No. 413,021.

*To all whom it may concern:*

Be it known that I, ARTHUR ATKINSON, a citizen of the United States, residing at Davenport, in the county of Scott and State of Iowa, have invented a new and useful Radiator-Shield, of which the following is a specification.

Where steam or hot water radiators are located adjacent to walls, it is well known that the upwardly moving currents of air caused thereby soon blacken and discolor the walls above the same, and the principal object of the present invention is to provide an exceedingly simple shield readily applicable to any radiator, said shield deflecting the upward current of air outwardly into the room, thus preventing its bad effect upon the wall and at the same time securing a better heating effect.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the upper portion of a radiator showing the shield applied thereto and in its operative position. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a plan view of the supporting bracket with the vertical supporting section showing a fragment of the radiator which is cut in section where the bracket is secured to the radiator. Fig. 4 is a detail vertical sectional view on the line 4—4 of Fig. 3.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

The radiator, which is designated by the reference numeral 5, may be of any well known or desired character, and to certain of the sections of the same, preferably the second from the ends, are secured horizontally disposed arms 6 constituting supports, these arms being provided with bases 7 attached to the radiator body by suitable screws or other fasteners 8. The rear ends of the arms have eyes 9 through which pass pivot bolts 10, and on these bolts are threaded clamping nuts 11.

A shield 12, preferably composed of sheet metal, extends over the radiator, and in rear of the same, having a compound upward curve, the front edge of the shield having a suitable finishing bead 13, the rear edge being doubled to form clamping flanges 14. Clamped by and between these flanges, is a cushioning strip 15 that extends beyond the flanges, and bears against the adjacent wall, as will be evident by reference to Figs. 1 and 2. The shield is provided with suitable end walls 16, and secured to said shield between the end walls, are depending ears 17.

Connections are made between the arms 6 and ears 14, said connections being in the form of standards that are composed of sections 18 and 19. The section 18 has a socket 20 in its upper end, and its lower end is in the form of an eye 21 pivotally mounted on the bolt 10, but normally held against movement by the clamping action of said bolt. The other section 19 is in the form of a stem that detachably fits in the socket 20, this stem having an eye 24 at its upper end that is pivotally connected, as shown at 23 to the ears 17.

In using the shield, the arms 6 are fastened to the radiator, as shown. The socket sections 18 are properly adjusted, and the stem sections 19 are then engaged in the sockets of said sections 18. As will be evident by reference to Fig. 2, the pivot axis 23 of the shield is located considerably nearer the rear edge of said shield than the front edge. Consequently the shield will assume the position shown in Figs. 1 and 2, in which case, the cushioning strip 15 will bear against the adjacent wall. Therefore no air can pass upwardly between the shield and the wall, and the heated air is deflected outwardly by the shield, preventing the smudging of the wall, as will be apparent. The shield, however, may be thrown rearwardly by tilting the front edge upwardly, the said shield freely turning on the pivots 23 so that the top of the radiator can be exposed whenever desired. Moreover the proper coaction of the parts can be readily secured by adjusting the socket members 18 which, throwing the stems 19 and the pivotal connections 23 farther from or toward the radiator, will insure the proper coaction of the rear edge of the shield with the adjacent wall.

It will be evident that this device is readily applicable to practically any form of radiator, and will fully carry out the objects set forth in the preliminary portion of the specification.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construc-

tion, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. The combination with a support having means for attachment to a radiator, of a standard having a detachable engagement with the support, and a shield pivotally mounted on the standard.

2. The combination with a support having means for attachment to a radiator, of a shield, and a standard comprising detachably associated sections, one of which is engaged with the shield, the other being connected to the support.

3. The combination with spaced supports, of means for securing the same to a radiator, a shield that is arranged to extend over the radiator, and separate pivotal and detachable connections between the support and shield.

4. The combination with a support, of means for securing the same to a radiator, a shield that is arranged to extend over said radiator and adapted to abut at its rear end against the adjacent wall, and a freely swinging detachable connection between the support and shield.

5. The combination with a support, of means for securing the same to a radiator, a shield that is arranged to extend over said radiator and adapted to abut at its rear end against the adjacent wall, a standard having a pivotal connection with the support and a pivotal connection with the shield, and means for holding the standard against its movement on one of its pivot axes and in different positions, the shield having a free swinging movement on the other pivot axis at all times to permit its being abutted against the wall and placed over the radiator or swung to an upright position.

6. The combination with a support, of means for securing the same to a radiator, a shield that is arranged to extend over said radiator and adapted to abut at its rear end against the adjacent wall, and a standard comprising detachably engaged sections, one of the sections having a pivotal connection with the support and the other having a pivotal connection with the shield, and means for holding the standard against its pivotal movement on the support and in different positions, the said shield having a free swinging movement on its pivot axis at all times to permit its being abutted against the wall and placed over the radiator or swung to an upright position.

7. The combination with a radiator, of a shield pivotally mounted between its front and rear ends on and extending over the radiator, the pivot axis of the shield being located nearer its rear end than its front end, and a cushion strip secured to the rear end of the shield and being adapted to engage with the wall adjacent to the radiator.

8. The combination with a radiator, of a shield pivotally mounted on and extending over the radiator, the rear margin of the shield being doubled to produce integral rearwardly extending clamping flanges, and a cushion strip secured by and between the clamping flanges, said strip extending beyond the flanges and being adapted to bear against the wall adjacent to the radiator.

9. The combination with a support comprising relatively adjustable sections, of means for securing one section to a radiator, a shield pivotally mounted on the other section, said sections being relatively adjustable to permit the shield to be placed in a position over the radiator and with its rear portion adapted to be abutted against the rear wall, and means for securing the sections against relative movement and in adjusted position.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ARTHUR ATKINSON.

Witnesses:
H. P. Federspiel,
C. R. Spink.