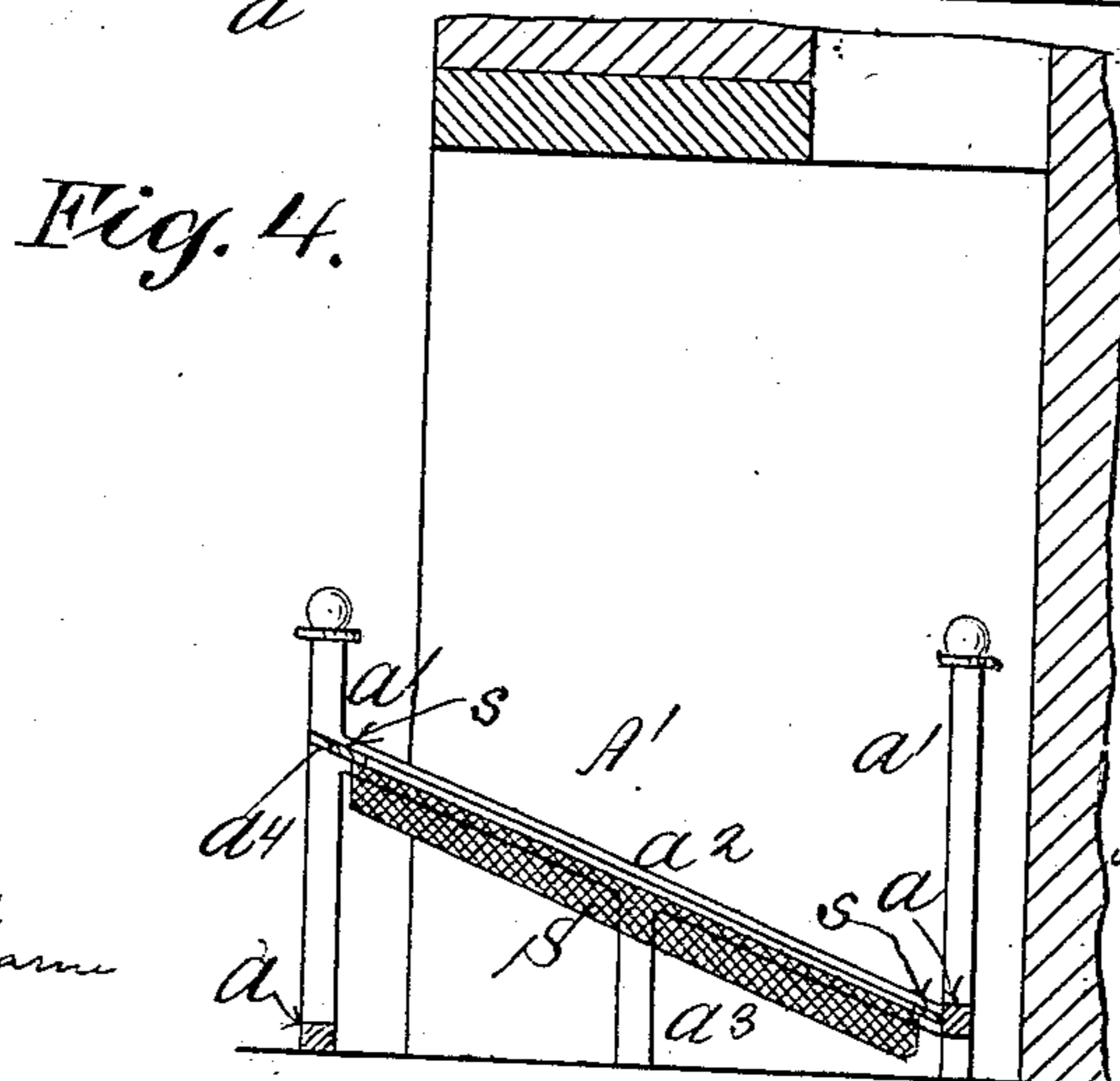
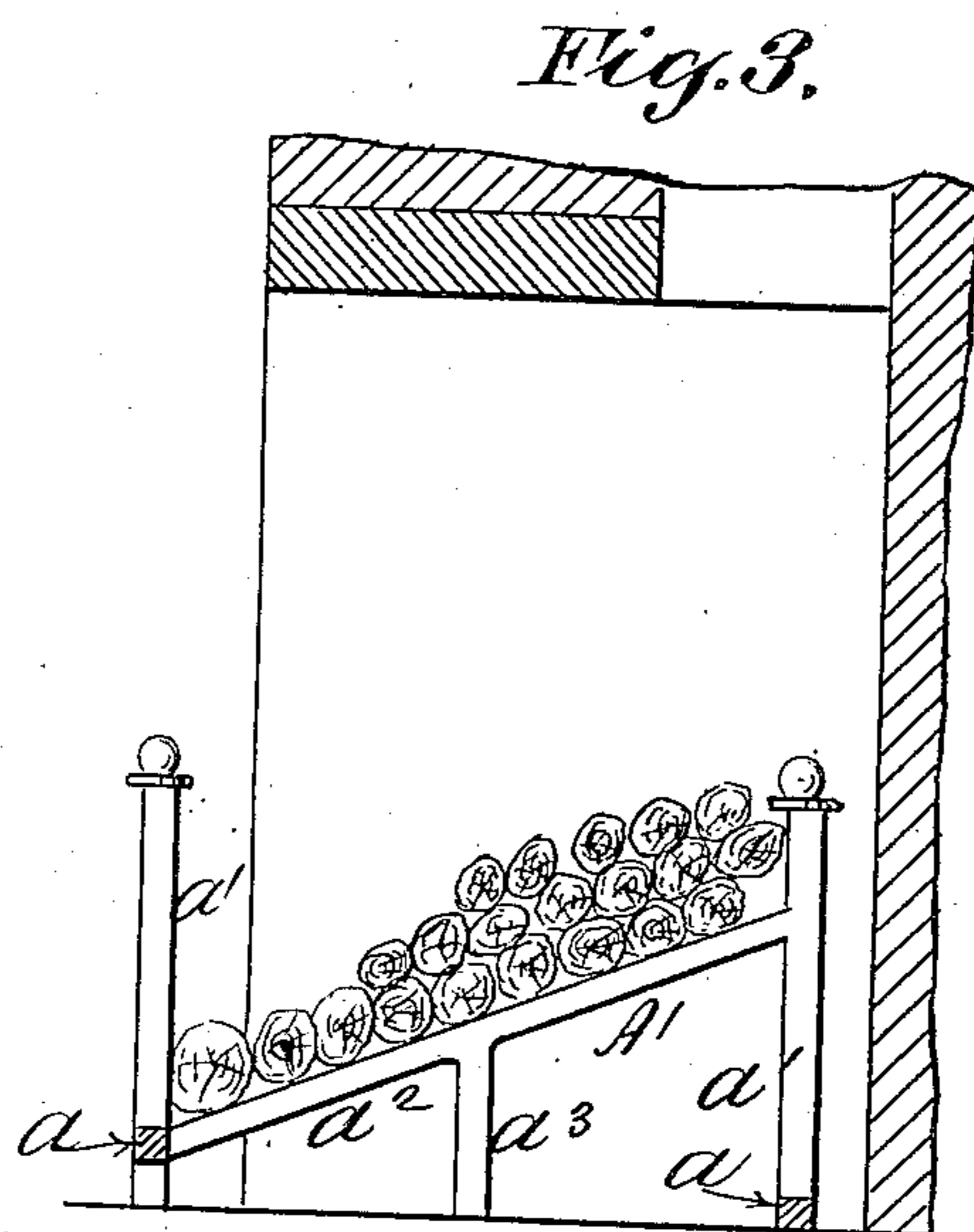
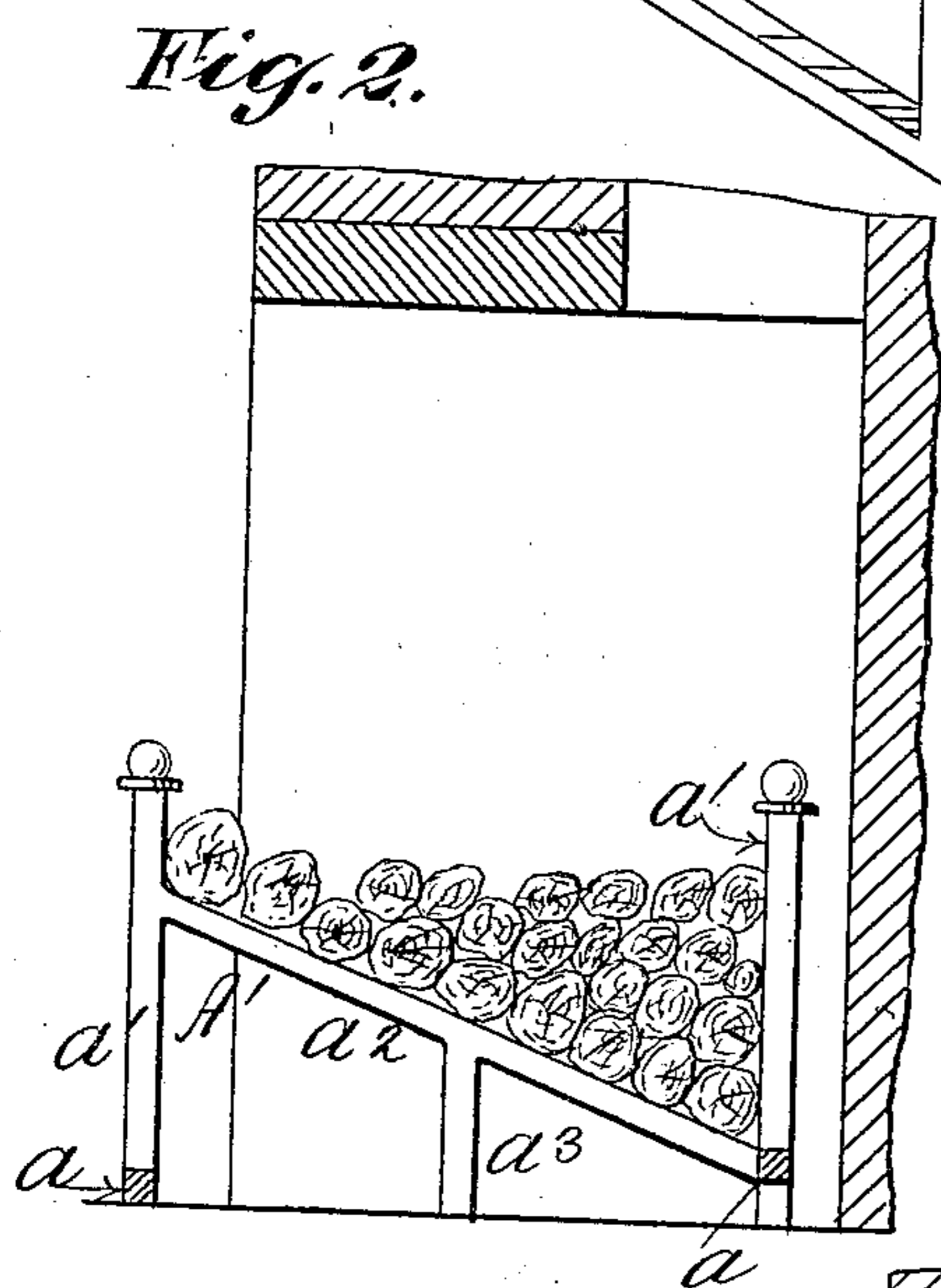
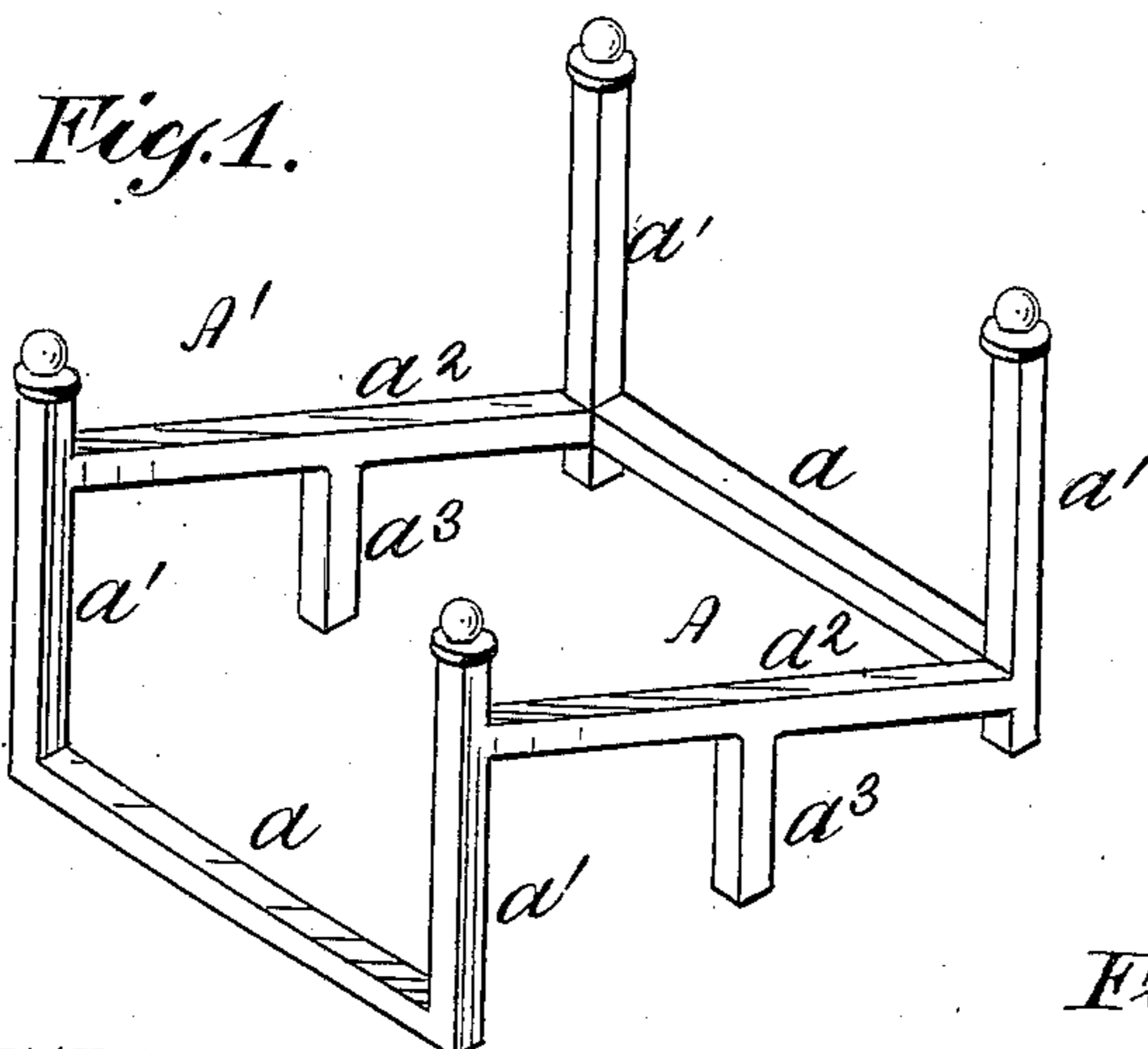


No. 890,669.

PATENTED JUNE 16, 1908.

A. A. LOW.  
ANDIRON.

APPLICATION FILED JUNE 10, 1907.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

ABBOT AUGUSTUS LOW, OF HORSESHOE, NEW YORK.

## ANDIRON.

No. 890,669.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed June 10, 1907. Serial No. 378,077.

*To all whom it may concern:*

Be it known that I, ABBOT AUGUSTUS Low, a citizen of the United States, residing at Horseshoe, St. Lawrence county, and State of New York, have invented certain new and useful Improvements in Andirons, of which the following is a specification.

My improvements relate to andirons for use in open fire places for the support of sticks or logs of wood to be consumed.

The main object of my invention is to feed the wood, after it has been placed upon the andirons, automatically by gravity in such manner as to eventually introduce it into the hottest portion of the fire and insure its consumption without resorting to manual labor in pushing and poking as heretofore, thereby avoiding the discomfort and inconvenience involved in caring for the ordinary open grate wood fire.

Another object is to afford a reversible device so that the fire may be concentrated either at the back or the front of the hearth as may be desired.

A further object is to provide for direct radiation from the underside of the fire toward and over the front of the hearth, instead of only toward and at right angles to the latter as where the common andirons is used.

The invention consists in the construction and arrangement of parts herein described and claimed specifically.

In the accompanying drawings, Figure 1, is an isometrical perspective of the twin andirons; Fig. 2, a vertical section through a fire place showing the twin andirons arranged to feed the fuel to the rear of the hearth; Fig. 3, a like view showing the two andirons arranged to concentrate the fuel at the front of the hearth; Fig. 4, is a view like Fig. 2, showing the use of a screen in connection with the twin andirons.

The twin andirons A, A', are united by cross bars  $a$ ,  $a$ , extending between their standards  $a'$ ,  $a'$ , as will be understood by reference to Fig. 1, of the drawings. The side rails or wood supporting members  $a^2$ ,  $a^2$ , of each andiron are inclined at an angle,—the two side rails  $a^2$ ,  $a^2$ , being parallel to each other so as to create inclined planes down which the sticks of wood will naturally feed automatically when placed on the andiron. Each of these inclined wood supporting members  $a^2$ , is preferably reinforced centrally by an intermediate standard or leg  $a^3$ . The in-

clination thus imparted to the wood supporting surfaces tends constantly to feed the wood "down hill," or toward the hottest part of the fire, thereby automatically trimming and concentrating the material to be consumed, as will be readily understood by reference to Figs. 2 and 3.

It will be seen and understood that my twin andirons are reversible. That is, they may be used in either of the positions shown in Figs. 2 and 3, to feed and concentrate the fire at either the rear or front of the hearth as may be found most desirable.

It will also be seen that when the twin andirons are arranged with relation to the hearth as shown in Fig. 2, that the underside of the fire is not only visible from the front of the hearth by reason of the inclination imparted to the fuel, but also that, for a like reason, the heat from the underside of the burning wood will be radiated directly across the front of the hearth, as well as down upon the same, thereby rendering the radiant heat generated more effective in warming the space in front of the hearth. For a like reason also the underside of the logs are rendered more accessible for the purpose of lighting or poking, and the ashes are more easily removed. In this connection it may be stated that the inner opposed sides of the wood supporting members  $a^2$ ,  $a^2$ , may be formed with shoulders or flanges  $a^4$ , as in the modification shown in Fig. 4, for the reception and support of the edges  $s$ ,  $s$ , of a screen S which may be used if desired when the twin andirons are arranged in this position to catch and prevent the spread of sparks, to retain embers until consumed, or even (if made of suitable mesh) to collect and facilitate the removal of the ashes.

Thus constructed and arranged my twin andirons constitute essentially and practically a single device which is reversible to suit the conditions of use or the preference of the user. The device is also automatic in character in that after the sticks of wood have been placed upon the inclined members  $a^2$ ,  $a^2$ , gravity will tend constantly to feed them down hill to concentrate the fire at either the front or rear of the hearth as may be desired.

It will be seen that my improved duplex andiron consists essentially of two U-shaped members the component parts of each of which are the low cross bar  $a$ , and two standards  $a'$ , said U-shaped members being united

integrally by the inclined members  $a^2$ . This U-shaped structure with the standards  $a'$ , extending above the inclined members  $a^2$  is a distinguishing feature of my invention.

5 What I claim as my invention and desire to secure by Letters Patent is,

1. As an article of manufacture an integral pair of reversible andirons consisting of two U-shaped front and rear members united by  
10 inclined side rails for the purpose described.

2. As an article of manufacture an integral pair of reversible andirons consisting of two U-shaped front and rear members united by inclined side rails, the standards of the U-

shaped members extending above said inclined side rails, for the purpose described. 15

3. A reversible device consisting of twin andirons rigidly connected together and formed with inclined parallel wood supporting members, having shoulders upon their  
20 opposed inner surfaces for the support of the edges of the screen, together with said screen, for the purpose set forth.

ABBOT AUGUSTUS LOW.

Witnesses:

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