

E. W. ELLINGTON.
AIR GRATE COVER.
APPLICATION FILED JUNE 3, 1910.

978,718.

Patented Dec. 13, 1910.

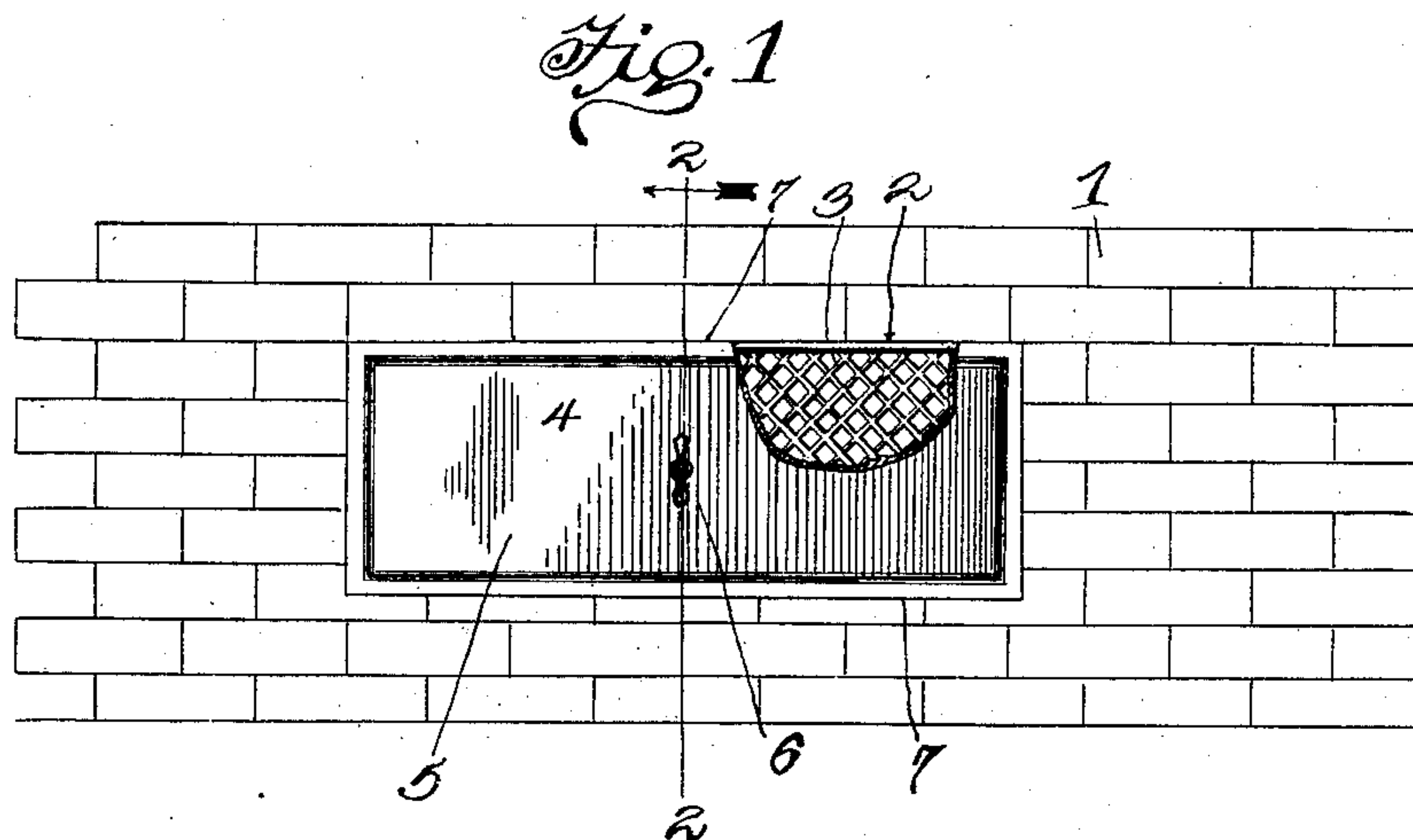
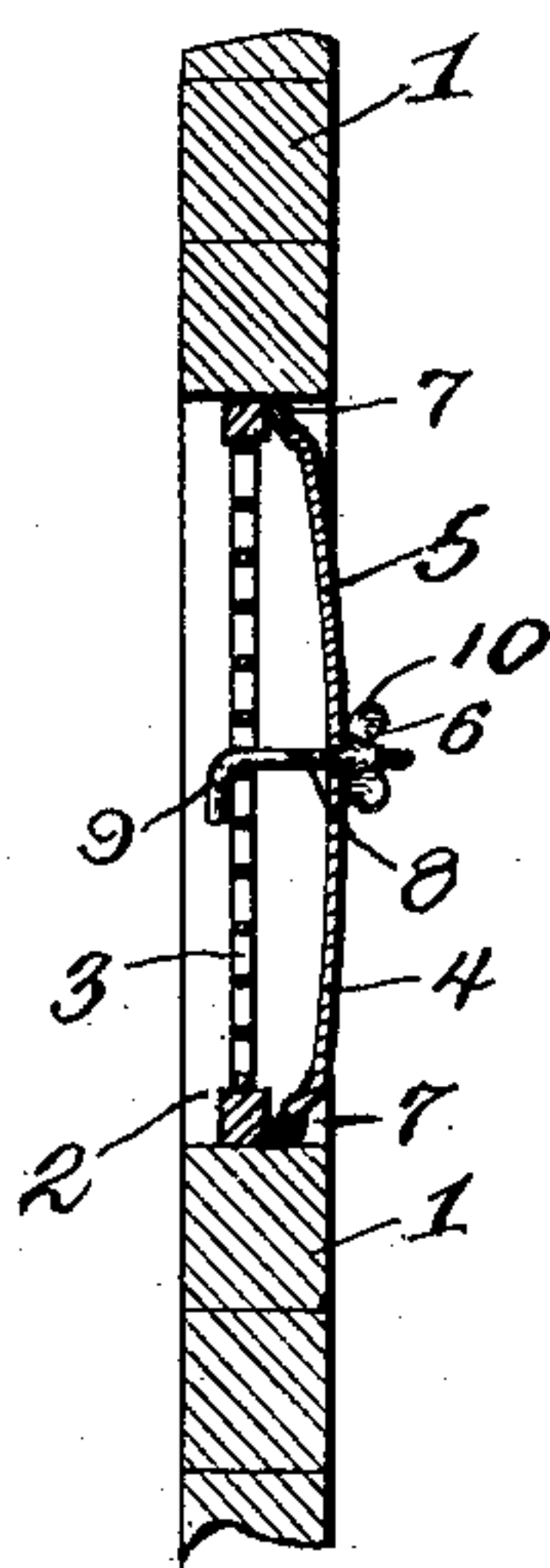


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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AIR-GRATE COVER.

978,718.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDMUND W. ELLINGTON, a citizen of the United States, residing at Owensboro, in the county of Daviess and State of Kentucky, have invented new and useful Improvements in Air-Grate Covers, of which the following is a specification.

This invention relates to air grate covers.

The object of the invention is the provision of a simple, cheaply constructed and efficient grate cover which is so formed that when inserted into the opening against the grate and clamped in position, it will expand and engage the walls of the opening.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings which form a part of this application, and in which:

Figure 1 is an elevation of a portion of a wall showing a vent opening therein and the vent cover partially broken away. Fig. 2 is a vertical section on the line 2—2 of Fig. 1.

Referring more particularly to the drawing, 1 represents the wall, 2 the air inlet opening, and 3 the grate covering the same. The cover comprises a single sheet of metal 4 which is bulged outwardly at its center as at 5 and is centrally apertured as at 6. The edges 7 are arranged all in the same plane and are preferably sharpened slightly so as to enter or tightly engage the walls of the

opening 2. A bolt 8 is passed through the aperture 6 and is provided with a hooked end 9 so as to engage the bars of the grate 3 and the outer end of the bolt is threaded to receive a winged nut 10. When the winged nut is tightened upon the bolt, the bulged portion is carried inwardly toward the grate and the edges 7 slightly expanded so as to be brought into tight engagement with the walls of the opening.

Having thus described the invention, what is claimed is—

The combination with a wall having an opening therein and a grate located in the opening, of a closing plate comprising a single sheet of flexible metal centrally bulged and having its edges arranged in a common plane and sharpened, together with a threaded bolt having a hooked end said bolt adapted to pass through the bulged portion and the hooked end adapted to engage the grate, and a winged nut carried by the bolt for adjustably engaging the outer surface of the bulged portion 4 bringing the same toward the grate and expanding the edges into engagement with the walls of the opening.

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

EDMUND W. ELLINGTON.

Witnesses:

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