No. 797,585. PATENTED AUG. 22, 1905.

F. KEES.

COAL HOLE COVER.

APPLICATION FILED MAR. 28, 1905.

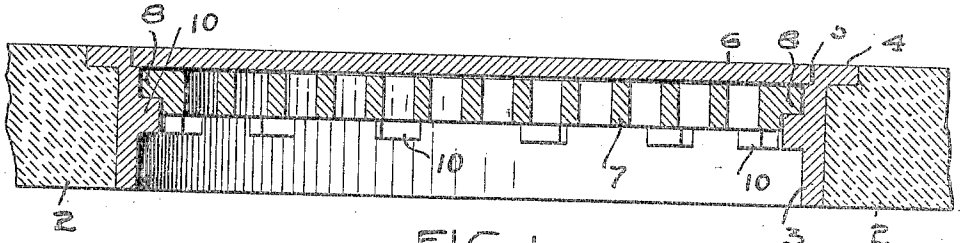


FIG. 1.

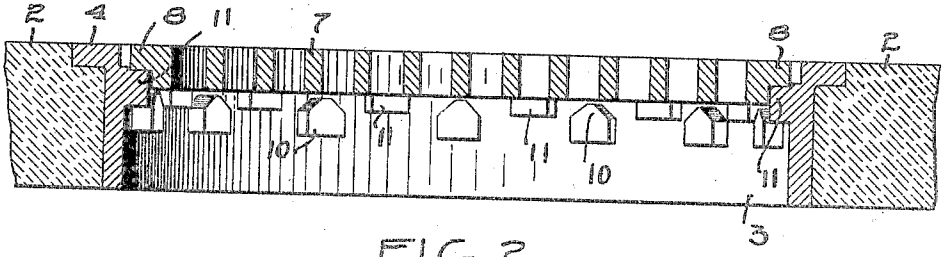


FIG. 2.

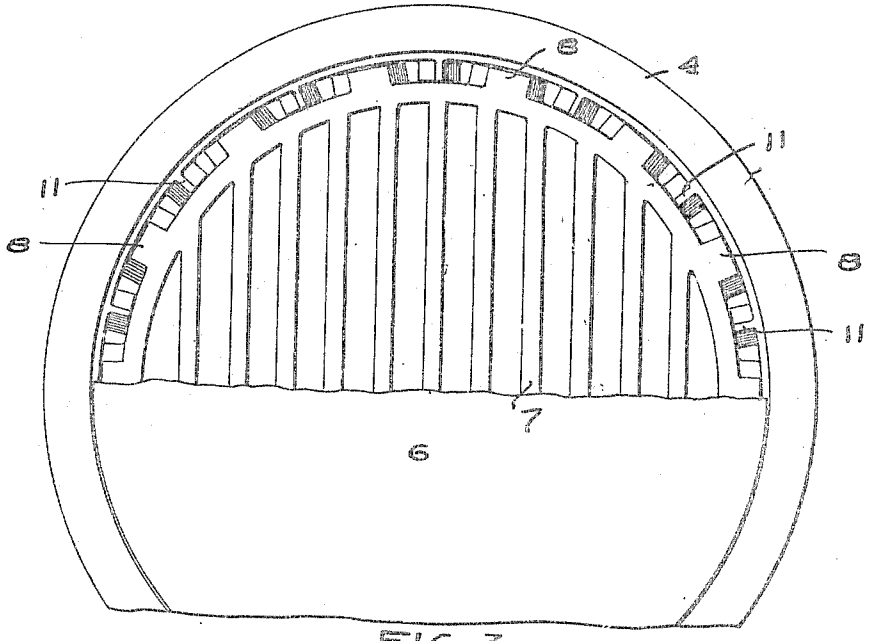


FIG. 3.

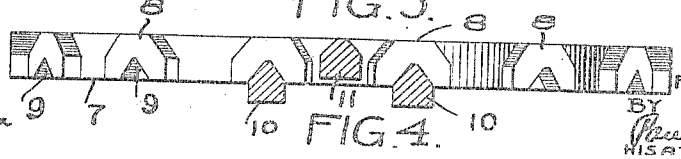


FIG. 4.

WITNESSES

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COAL-HOLE COVER.

No. 797,585. Specification of Letters Patent. Patented Aug. 22, 1905.

Application filed March 28, 1905. Serial No. 252,496.

To all whom it may concern:

Be it known that I, FREDERICK KEES, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Coal-Hole Covers, of which the following is a specification.

The object of my invention is to provide a coal-hole cover that normally forms a tight or close covering over the hole in the sidewalk, but whenever desired can be easily and quickly converted into a ventilating-covering to allow the basement to be thoroughly aired.

The invention consists generally in providing a coal-hole with a solid imperforate cover that is normally supported therein on a level with the sidewalk and an independent grating that is normally supported below the said solid cover, but is adapted to be raised and put in place of the said cover when it is removed.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional view of a coal-hole cover embodying my invention and illustrating the device when the hole is entirely closed. Fig. 2 is a similar view showing the solid cover removed and the grating raised and substituted in its place. Fig. 3 is a plan view with the upper or imperforate cover broken away, showing the grating beneath. Fig. 4 is a detail showing the devices provided on the ring or casting within the coal-hole for supporting the cover and grating therein.

In the drawings, 2 represents a section of the sidewalk wherein the usual coal-hole is formed and provided with the ring or casting 3, that fits snugly within the said hole, and provided at the top with the laterally-extending flange 4, that forms the support for the ring in the sidewalk. This casting is provided with an annular recess 5, wherein the edge of the circular imperforate plate 6 is supported. This plate is flush with the top of the sidewalk, so as not to interfere in any way with persons passing over the hole and to present a neat finished appearance to the sidewalk. It is customary in hot weather to remove this imperforate cover and substitute a wooden grating therefor or insert a chair or a stool into the coal-hole to prevent any one from accidentally walking into the hole. These makeshift devices to prevent accidents are unsightly and frequently are not at hand when needed, and I therefore have provided a grating 7, arranged to fit within the ring 3 and provided on its periphery with a series of lugs 8, having V-shaped recesses 9 in their lower edges that are adapted to receive the corresponding upper edges of lugs 10 and 11, provided in circular rows around the inside of the casting 3, the lugs 10 being below the level of the lugs 11 and alternating in position therewith, thus forming two complete rows of lugs entirely around the casting, but upon different levels. The grating is normally supported upon the lugs 10 when the imperforate plate 6 is in place; but when it is desired to remove the cover 6 the grating is lifted and rotated slightly and allowed to rest upon the upper row of lugs. Its upper surface will then be flush with the sidewalk, as indicated in Fig. 2, and the basement can be thoroughly ventilated and at the same time the hole covered sufficiently to prevent possibility of accident. When it is desired to replace the imperforate cover, the grating is lifted again and rotated slightly and allowed to drop down upon the lower row of lugs, where it will be below the level of the sidewalk, and the imperforate cover can be dropped into place and the hole entirely covered.

I claim as my invention—

1. A combined coal-hole cover and ventilator comprising a ring fitting within a hole in the sidewalk, a cover supported on said ring and closing said hole, a grating arranged within said ring, and means for supporting said grating above its normal position and on a level substantially with the sidewalk when said cover is removed, substantially as described.

2. The combination, with a sidewalk or floor, of a ring fitting within a hole therein, a cover supported on said ring on a level substantially with said sidewalk or floor and closing said hole, a grating supported within said ring below said cover and adapted to be raised after the cover is removed, and means for supporting said grating in its raised position, substantially as described.

3. The combination, with a sidewalk or floor, of a ring fitting within a hole therein, a cover supported on said ring, rows of lugs provided on said ring one above the other the lugs of one row alternating in position with those of the other row, a grating normally supported on the lower row of lugs but adapted to be raised and supported on the upper row when said cover is removed, substantially as described.

4. The combination, with a ring fitting within a hole in the sidewalk or floor, of a cover

resting on said ring and normally closing said hole, said ring being provided below said cover with a series of lugs alternately arranged, the alternate lugs being on the same level and on a different level from those between them, and a grating having a series of peripheral lugs arranged to normally engage the lower lugs when said cover is in place and to engage the upper lugs when the grating is raised after the removal of said cover.

5. The combination, with a ring fitting within a hole in the floor or sidewalk, of a cover removably supported thereon and normally closing said hole, a removable grating arranged within said ring below said cover, and means for supporting said grating when it is raised on a level with the sidewalk and said cover is removed, substantially as described.

In witness whereof I have hereunto set my hand this 15th day of March, 1905.

FREDERICK KEES.

Witnesses:

RICHARD PAUL,

C. MACNAMARA.