No. 841,660. PATENTED JAN. 22, 1907.

J. M. BARNES.

ADJUSTABLE FLUE OR CHIMNEY CAP.

APPLICATION FILED JULY 23, 1906.

Fig. 1.

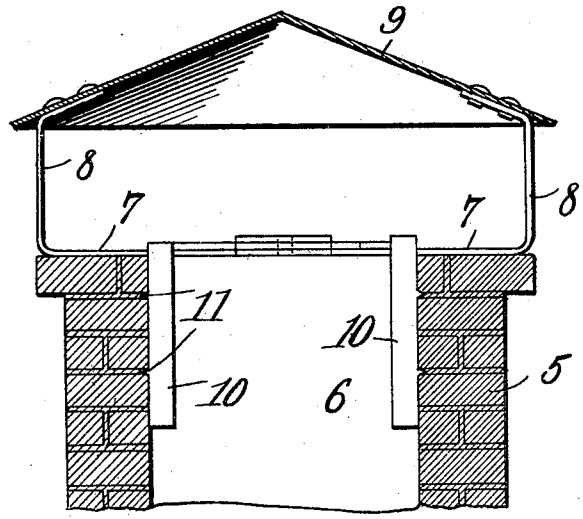
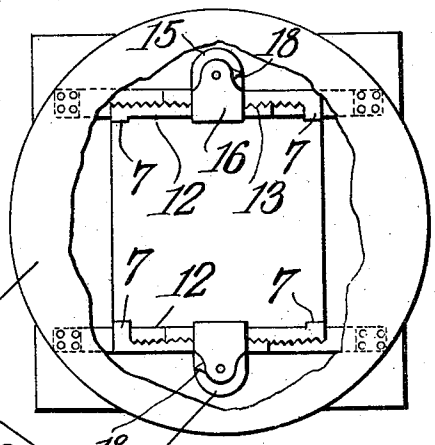


Fig. 2.



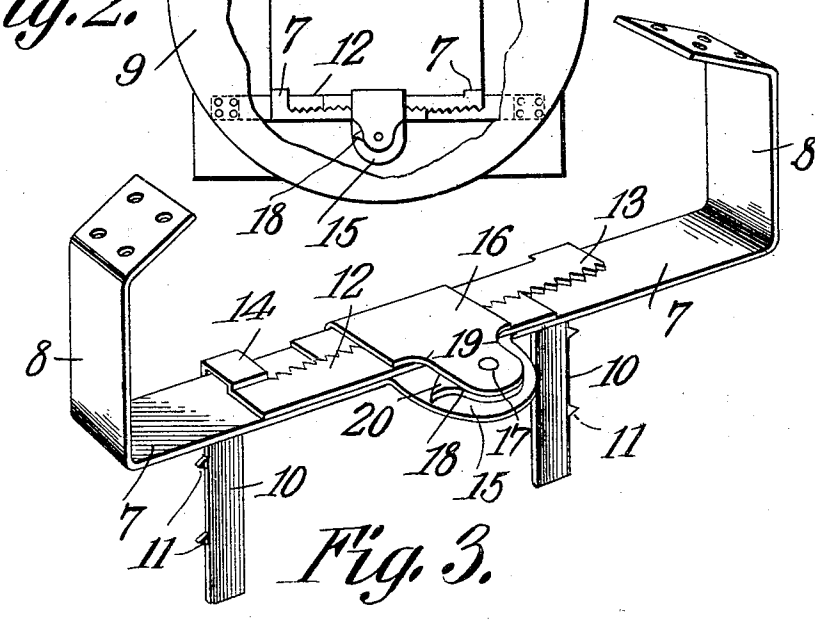


Fig. 3.

WITNESSES:

E. F. Stewart

L. A. Ricker

Jesse M. Barnes, INVENTOR.

By Cachow & Co

ATTORNEYS

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JESSE M. BARNES, OF SARCOXIE, MISSOURI.

ADJUSTABLE FLUE OR CHIMNEY CAP.

No. 841,660. Specification of Letters Patent. Patented Jan. 22, 1907.

Application filed July 23, 1906. Serial No. 327,391.

To all whom it may concern:

Be it known that I, JESSE M. BARNES, a citizen of the United States, residing at Sarcoxie, in the county of Jasper and State of Missouri, have invented a new and useful Adjustable Flue or Chimney Cap, of which the following is a specification.

This invention relates to chimney cowls or caps, and has for its object to provide a comparatively simple and inexpensive device of this character adapted to form a partial closure for the top of the chimney, and thereby prevent rain, snow, and other foreign matter from passing down the chimney and entering the rooms of the building.

A further object of the invention is to provide a cap or cowl capable of being quickly adjusted to fit chimneys and smoke-stacks of different sizes and which may be securely locked in adjusted position without the employment of screws, rivets, bolts, and similar fastening devices.

A further object is to provide a cap having a plurality of sets of depending arms adapted to bear against the interior walls of the chimney at the corners thereof and provided with lateral spurs or lugs designed to be driven into the mortar, thereby to assist in retaining the cap in position on the chimney.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability, and efficiency, as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a longitudinal sectional view of a chimney cap or cowl constructed in accordance with my invention. Fig. 2 is a top plan view, partly in section. Fig. 3 is a perspective view of one of the hood-supporting members and the associated depending arms detached.

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

The improved device is principally designed for use in connection with chimneys, smoke-stacks, and similar smoke-conducting pipes and by way of illustration is shown applied to a chimney of the ordinary construction, in which 5 designates the chimney, and 6 the vertically-disposed flue. The cap or cowl consists of a pair of spaced transverse bars 7, the opposite ends of which are bent upwardly at 8 and thence laterally for attachment to a cap or hood 9. The hood 9 is substantially conical in shape, as shown, and spaced from the top of the chimney by the ends 8 of the transverse bars 7, thereby to permit the escape of the products of combustion through the flue 6.

Slidably mounted on the bars 7 are depending arms 10, which engage the interior walls of the chimney at the corners thereof and are provided with laterally-extending spurs 11, adapted to be driven or otherwise embedded in the mortar, as best shown in Fig. 1 of the drawings. The arms 10 are provided with lateral extensions 12, the adjacent longitudinal edges of which are provided with teeth or serrations 13, adapted to interengage, and thus lock the arms in adjusted position, one of said arms being provided with a socket or offset portion 14 to permit sliding movement of the extension 12 of the adjacent arm.

The transverse supporting-bars 7 are each formed with lateral ears or lugs 15, and spaced from said lugs is a plate 16, preferably formed integral with the bar 7, and which, in connection with the lug 15, forms a casing or housing for the reception of the extensions 12 of the depending arms 10.

Extending vertically through the lug 15 and plate 16 is a pin 17, on which is pivotally mounted a locking member or cam 18, adapted to engage the smooth edge of the adjacent extension 12, thereby forcing the teeth 13 into engagement with each other, and thus locking the arms 10 in adjusted position. The free end of the plate 16 is preferably cut away or reduced, as indicated at 19, to permit the operator to conveniently grasp the handle 20 of the locking member 18.

Attention is called to the fact that the bars 7 rest on the walls of the chimney at the top thereof, with the lugs 15 bearing against the upper surface of the bricks or cement, thus assisting in sustaining the weight of the hood and also assisting is preventing accidental displacement of the latter.

In operation the handle 20 is moved laterally to release the serrated faces of the exten-

sion 12 and the arms 10 moved into engagement with the interior walls of the chimney, after which the handle 20 is rotated in the opposite direction, thus forcing the cam or locking member in engagement with the adjacent extension 12 and securely locking the arms 10 in adjusted position.

In order to detach the cap from the chimney, it is merely necessary to move the cam or locking member to released position and slide the arms 10 inwardly toward the lug 15, when the arms may be withdrawn from the flue 6 and the hood detached from the chimney, as will be readily understood.

The caps or cowls may be made in different sizes and shapes and may be galvanized, japanned, plated, or otherwise coated to protect the same against the action of the elements.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive, and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention, what is claimed is—

1. A chimney-cap comprising a hood provided with a plurality of depending arms adapted to engage the interior walls of the chimney, said arms being provided with laterally-extending mortar-engaging spurs.

2. A chimney-cap comprising a hood provided with a plurality of laterally-adjustable depending arms adapted to engage the interior walls of the chimney, said arms being provided with mortar-engaging spurs.

3. A chimney-cap comprising a hood, bars secured to the hood and extended transversely across the top of the chimney, arms slidably mounted on the bar and adapted to engage the interior walls of the chimney, and means for locking the arms in adjusted position.

4. A chimney-cap comprising a hood, bars secured to the hood and extended transversely across the top of the chimney, depending arms slidably mounted on the bars and adapted to engage the interior walls of the chimney, mortar-engaging spurs carried by the arms, and means for locking the latter in adjusted position.

5. A chimney-cap comprising a hood, bars secured to the hood and extended transversely across the top of the chimney, arms depending from the bars and provided with lateral extensions slidably mounted on said bars, and means for locking the extensions in engagement with each other.

6. A chimney-cap comprising a hood, bars secured to the hood and extended transversely across the top of the chimney, arms slidably mounted on the bar and provided with lateral extensions the adjacent edges of which are serrated, and a clamping member for locking the serrated edges of the extensions in engagement with each other.

7. A chimney-cap comprising a hood, bars secured to the hood and extended transversely across the top of the chimney, depending arms slidably mounted on the bars and provided with lateral extensions, and a cam pivotally mounted on the bars and adapted to engage the extensions.

8. A chimney-cap comprising a hood, bars extending transversely across the chimney and having their opposite ends bent upwardly and secured to the hood, said bars being provided with intermediate housings, depending arms slidably mounted on the bars and provided with lateral extensions the adjacent edges of which are slidably mounted within the housings and provided with teeth, and a cam pivotally mounted in the housing and adapted to bear against the extensions for locking the latter in engagement with each other.

9. A chimney-cap comprising a hood, bars extending transversely across the top of the chimney and having their opposite ends bent upwardly and secured to the hood, depending arms slidably mounted on the bars and adapted to engage the interior walls of the chimney said arms being provided with lateral extensions one of which is formed with an offset portion to permit longitudinal movement of the adjacent extension, and a cam pivotally mounted on the bars and adapted to bear against the extensions for locking the same in engagement with each other.

10. A chimney-cap comprising a conical-shaped hood, bars secured to the hood and extending transversely across the top of the chimney, arms slidably mounted on the bars and provided with depending extensions having lateral mortar-engaging spurs, and means for clamping the arms 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.

JESSE M. BARNES.

Witnesses:
O. N. HOSHAW,
A. C. MORRISON.