

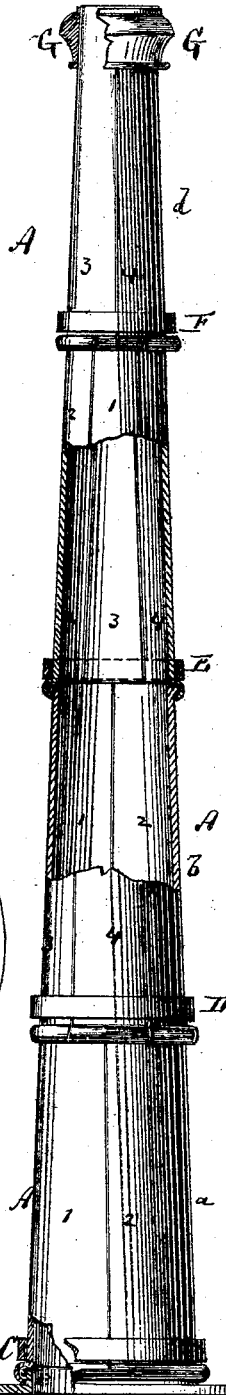
W. TOEPFER.

Improvement in Smoke-Stacks.

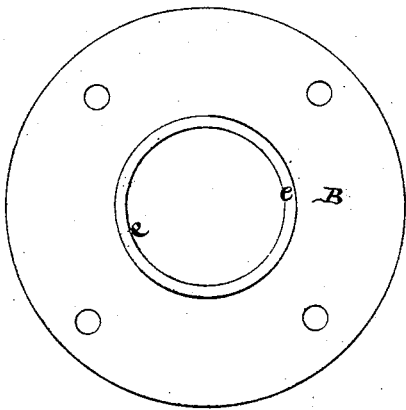
No. 114,883.

Patented May 16, 1871.

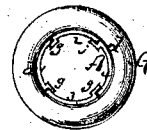
*Fig. 1*



*Fig. 3.*



*Fig. 2.*



Witnesses:

*John Becker.*  
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Inventor:

*W. Toepfer.*

PER

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# United States Patent Office.

WENZEL TOEPFER, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO TOEPFER & SON, OF SAME PLACE.

Letters Patent No. 114,883, dated May 16, 1871.

## IMPROVEMENT IN SMOKE-STACKS.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, WENZEL TOEPFER, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and improved Sectional Smoke-Stack; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side elevation, partly in section, of my improved sectional smoke-stack.

Figure 2 is an upper end view of the same.

Figure 3 is a plan view of the base or support of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a cast-iron smoke-stack for stationary machinery, and has for its object to so construct the same that it can be conveniently packed and transported in small bulk.

The invention consists in making the smoke-stack in sections, so that it can be taken apart and put together at will, and so that it will be strong, tight, and reliable when put together.

The smoke-stack A is made sectional, in series of vertical and horizontal pieces.

Vertically it is divided into four, more or less, divisions, *a*, *b*, *c*, and *d*, and each vertical division again into four, more or less, pieces, 1, 2, 3, and 4.

The chimney rests on a base, B, of metal or other material.

From the base projects an upright flange, *e*, with a bead, *f*, at its upper end.

The pieces of the lower section *a* are at their lower ends grooved on the inner faces, and are placed against the outer side of the flange *e*, so that the bead *f* enters their grooves.

When the four parts of the section *a* have been applied, they inclose or embrace the flange *e* entirely, and constitute a slightly conical tube. They are held together by a ring, C, which is slipped over them.

The upper end of the section *a* is beaded like the flange *e*, to receive in a similar way the grooved lower ends of the pieces constituting the section *b*. These are held together by a ring, D.

The pieces of the section *c* are then placed upon *b*, which has a bead, *f*, and are held by a ring, E.

The pieces of the section *d* are in a similar way put upon *c*, and held by a ring, F.

A ring, G, holds the pieces of the section *d* together on top.

Thus the smoke-stack is composed of a series of sections, which can be easily taken apart and put together. The lower part of each section overlapping the upper end of the section below serves to produce a tight joint.

The joints between the several pieces-1 2 3 4 of each section are held tight by inner or outer projections *g g* on the same, respectively, as shown in fig. 2.

It is evident that, instead of the lower end of each section fitting around the upper end of the one below, the upper ends of the lower sections may embrace the lower ends of the upper.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

A portable smoke-stack, composed of vertical sections, which are made in separate pieces and held together by rings, as set forth.

WENZEL TOEPFER.

Witnesses:

OTTO FIEBING,  
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