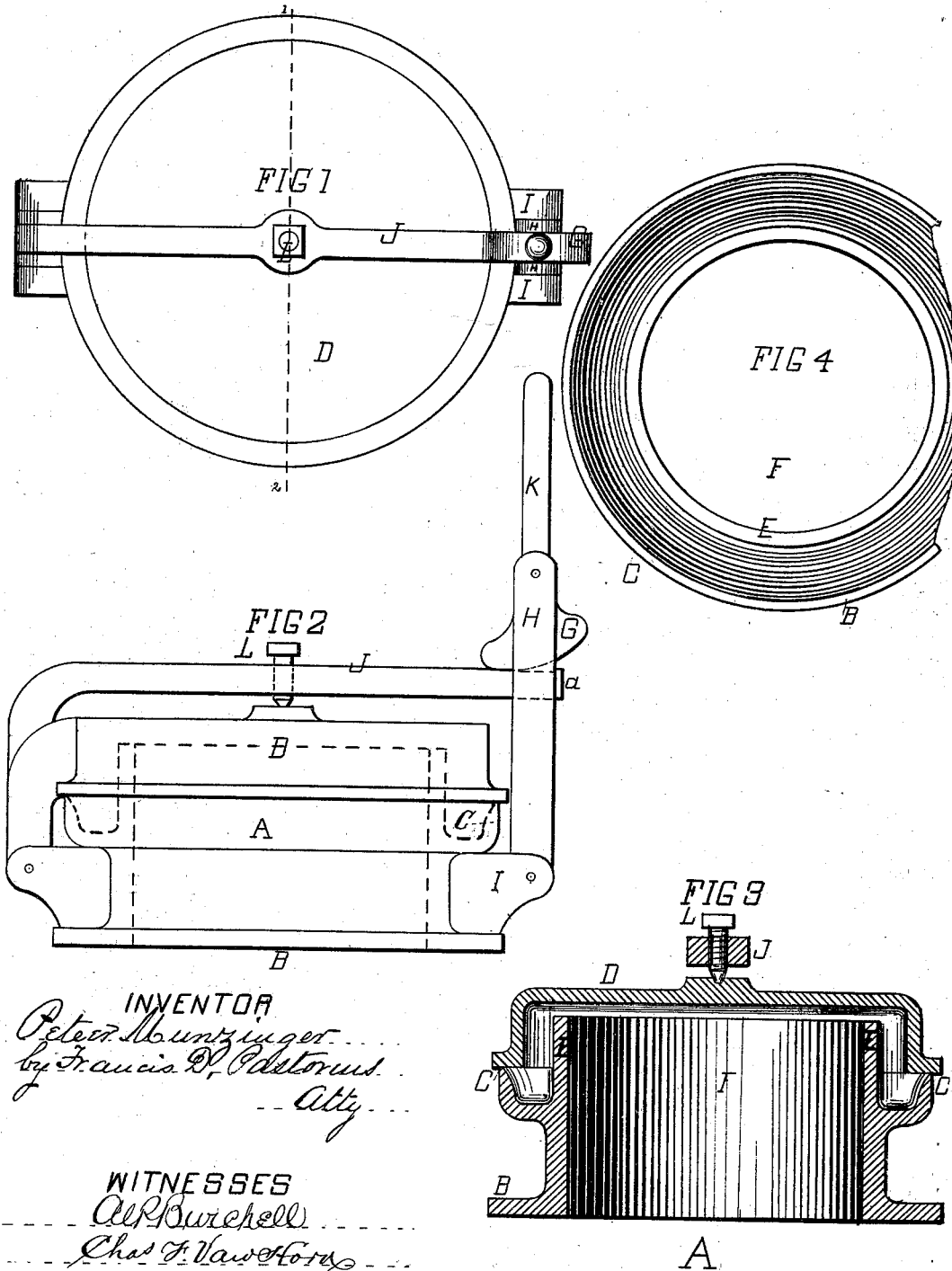


**P. MUNZINGER.**  
**Mouth-Piece for Gas-Retort.**

No. 166,131.

Patented July 27, 1875.



INVENTOR  
*Peter Munzinger*  
 by *Francis D. Pedersen*  
 Atty

WITNESSES  
*Alf Burehell*  
*Chas F. Vawter*

# UNITED STATES PATENT OFFICE.

PETER MUNZINGER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
MORRIS, TASKER & CO., OF SAME PLACE.

## IMPROVEMENT IN MOUTH-PIECES FOR GAS-RETORTS.

Specification forming part of Letters Patent No. **166,131**, dated July 27, 1875; application filed  
June 28, 1875.

*To all whom it may concern :*

Be it known that I, PETER MUNZINGER, of the city of Philadelphia and State of Pennsylvania, have invented certain Improvements in the Construction of Mouth-Pieces for Gas-Retorts, of which the following is a specification:

The invention consists in the combination, with a retort mouth-piece, of a knife-edge contact piece, a lid or cover, and a guard for the protection of the knife-edge contact-piece. It also consists in the combination, with a retort mouth-piece, of a lid or cover, an eccentric which turns in the loose end of a pivoted or hinged bar, and a cross-bar.

Figure 1 is a plan view. Fig. 2 is a side elevation. Fig. 3 is a vertical section through the line 1 2, Fig. 1. Fig. 4 is a plan view of Fig. 3, the lid being removed.

A is a retort mouth-piece, and B a flange by which it is attached to the retort. C is a knife-edge projection around the mouth-piece, against which the lid D is applied. Its purpose, when in contact with the lid, is to make a perfectly close gas-tight joint. E is a flange at the end of the mouth-piece, or an extension of the throat F of the same. It extends a suitable distance beyond the plane of the knife-edge C, to guard and protect it from injury by contacting with the implements employed in charging and operating the retort.

G is an eccentric, a cam, or any curved surface capable of producing a variable pressure, pivoted in the loose end of the slotted bar H, which is hinged in the jaws I of the mouth-piece. When the lid D is in place against the knife-edge C, and the hinged cross-bar J is turned against the lid, its end *a* takes into the slot of the bar H, and is operated on by the cam G, the pressure exerted depending on the curve of the eccentric or cam and the inclination of its handle K. A screw, L, which passes through the cross-bar J, affords additional pressure by pressing against the center of the lid. To open the lid the eccentric is reversed, and the bar H turned from the end of the bar J, which is then thrown back.

I claim as my invention—

1. The combination of the retort mouth-piece A, knife-edge contact-piece C, lid D, and the guard E, as shown and described.

2. The combination of the retort mouth-piece A, lid D, eccentric G, hinged bar H, and the cross-bar J, as shown and described.

In testimony whereof I hereunto sign my name in presence of two subscribing witnesses.

PETER MUNZINGER.

Witnesses:

THOS. C. WARWICK,  
FRANCIS D. PASTORIUS.