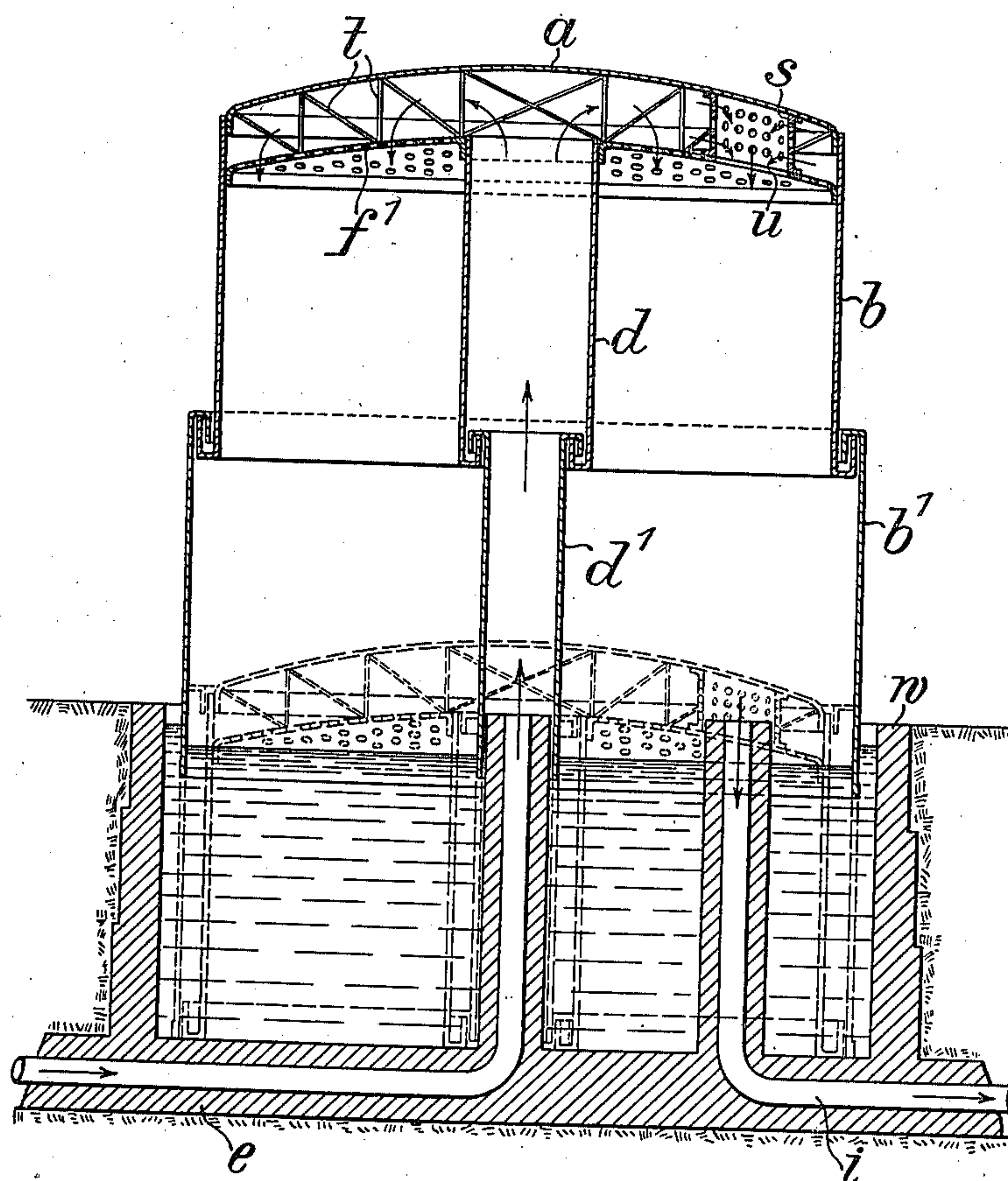


995,601.

E. HOHMANN.
GASOMETER.
APPLICATION FILED APR. 9, 1910.

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GASOMETER.

995,601.

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To all whom it may concern:

Be it known that I, EDMUND HOHMANN, a citizen of the German Empire, and a resident of Stettin, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in Gasometers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in gas receptacles or gasometers, and more particularly to that class of gasometers in which the gas is admitted to the gasometer through telescoping tubes extending with their discharge end to a point near the top of the bell shaped receptacle of the gasometer and partaking of the rising and falling movement of the latter.

The object of the improvements is to provide means whereby the gas supplied to the gasometer is thoroughly mixed with the gas stored within the same.

With this object in view my invention consists in providing a foraminated or sieve shaped disk at the discharge end of the gas inlet pipe, which disk is adapted to conduct the gas supplied through the inlet pipe over the whole area of the gasometer and to divide the same into small currents which fall downward through the perforations of the said disk and thoroughly intermingle with the gas stored within the gasometer, provided the specific gravity of the gas supplied to the gasometer is higher than that stored therein. In the preferred form the gasometer is so constructed that means are provided at its bottom whereby the said disk and the bell shaped cylinder are supported when in their lowermost positions, which means are particularly useful if the diameter of the gasometer is very large.

For the purpose of explaining the invention an example embodying the same has been shown in the accompanying drawing in which a vertical cross-section of a gasometer is shown.

A bell shaped cylinder *b* which is open at its bottom and closed at its top telescopes in a cylinder *b'*, and the cylinder *b'* telescopes in a water tank *w*. Near the top *a* of the cylinder *b* a foraminated or sieve shaped disk *f'* is provided which is secured to the top *a* by means of a suitable iron structure *t*.

In the example shown the gas inlet pipe is made of three telescoping sections *d*, *d'*, *e* and it extends with its discharge end to a central opening formed in the disk *f'*. The gas supplied to the gasometer through the gas inlet pipe *e*, *d*, *d'* is discharged at the top of the gasometer and it is conducted sidewise and over the whole cross-sectional area of the same by means of the foraminated disk *f'*. The perforations of the latter divide the gas into numerous small currents which flow downward and are thoroughly mixed with the gas stored within the gasometer.

As shown, the gas outlet tube *i* extends upward from the bottom of the tank *w*. At a point above the said tube the disk *f'* is formed with an aperture *u* permitting the passage of the tube *i* therethrough if the disk is in its lowermost position. In the preferred form the disk carries a foraminated cylinder *s* which is secured to the said disk as well as to the top *a*. As in the lowermost position of the cylinder *b* the tube *i* extends through the aperture *u* and above the disk *f'*, the height of the cylinder *b* is reduced. In the lowermost position of the cylinder *b*, shown in dotted lines, the disk *f'* bears on a suitable frame work provided within the tank *w*. This frame work may be of any suitable construction, and it is not shown in the figure.

I claim herein as my invention:

1. In a gasometer, the combination with a water tank, and a bell shaped receptacle adapted to rise and fall within said tank, of a gas inlet pipe constructed of telescoping sections and adapted to rise and fall with said bell shaped receptacle and extending with its discharge end to a point near the top of the bell shaped receptacle, means to withdraw gas from the gasometer, and a foraminated disk provided at the discharge end of the gas inlet pipe and partaking of the rising and falling movement of the bell shaped receptacle.

2. In a gasometer, the combination with a water tank, and a bell shaped receptacle adapted to rise and fall within said tank, of a gas inlet pipe constructed of telescoping sections and adapted to rise and fall with said bell shaped receptacle and extending with its discharge end to a point near the top of the bell shaped receptacle, a gas outlet tube extending upward from the bottom

of the tank, and a foraminated disk provided at the discharge end of the gas inlet pipe and partaking of the rising and falling movement of the bell shaped receptacle, said disk being formed at a point above the gas outlet tube with an aperture permitting the passage of the outlet tube therethrough.

3. In a gasometer, the combination with a water tank, and a bell shaped receptacle adapted to rise and fall within said tank, of a gas inlet pipe constructed of telescoping sections and adapted to rise and fall with said bell shaped receptacle and extending with its discharge end to a point near the top of the bell shaped receptacle, a gas outlet tube extending upward from the bottom of the tank, and a foraminated disk provided at the discharge end of the gas inlet pipe and partaking of the rising and falling movement of the bell shaped receptacle, said disk being formed at a point above the gas outlet tube with an aperture and a foraminated cylinder extending upward from said aperture and permitting the passage of the outlet tube therethrough.

4. In a gasometer, the combination with a water tank and a bell-shaped receptacle adapted to rise and fall within said tank, of a gas inlet pipe connected with said receptacle and adapted to rise and fall therewith and extending with its discharge end to a point near the top of said receptacle, and a foraminated disk provided at the discharge end of the gas inlet pipe and partaking of the rising and falling movement of the bell-shaped receptacle.

5. In a gasometer, the combination with a water tank and a bell-shaped receptacle adapted to rise and fall within said tank, of a foraminated disk located within the said receptacle and partaking of its rising and falling movement, and a pipe for discharging gas between the top of the receptacle and said foraminated disk.

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

EDMUND HOHMANN.

Witnesses:

GEO. LILIEQUIST,
EMIL SCHMIDT.