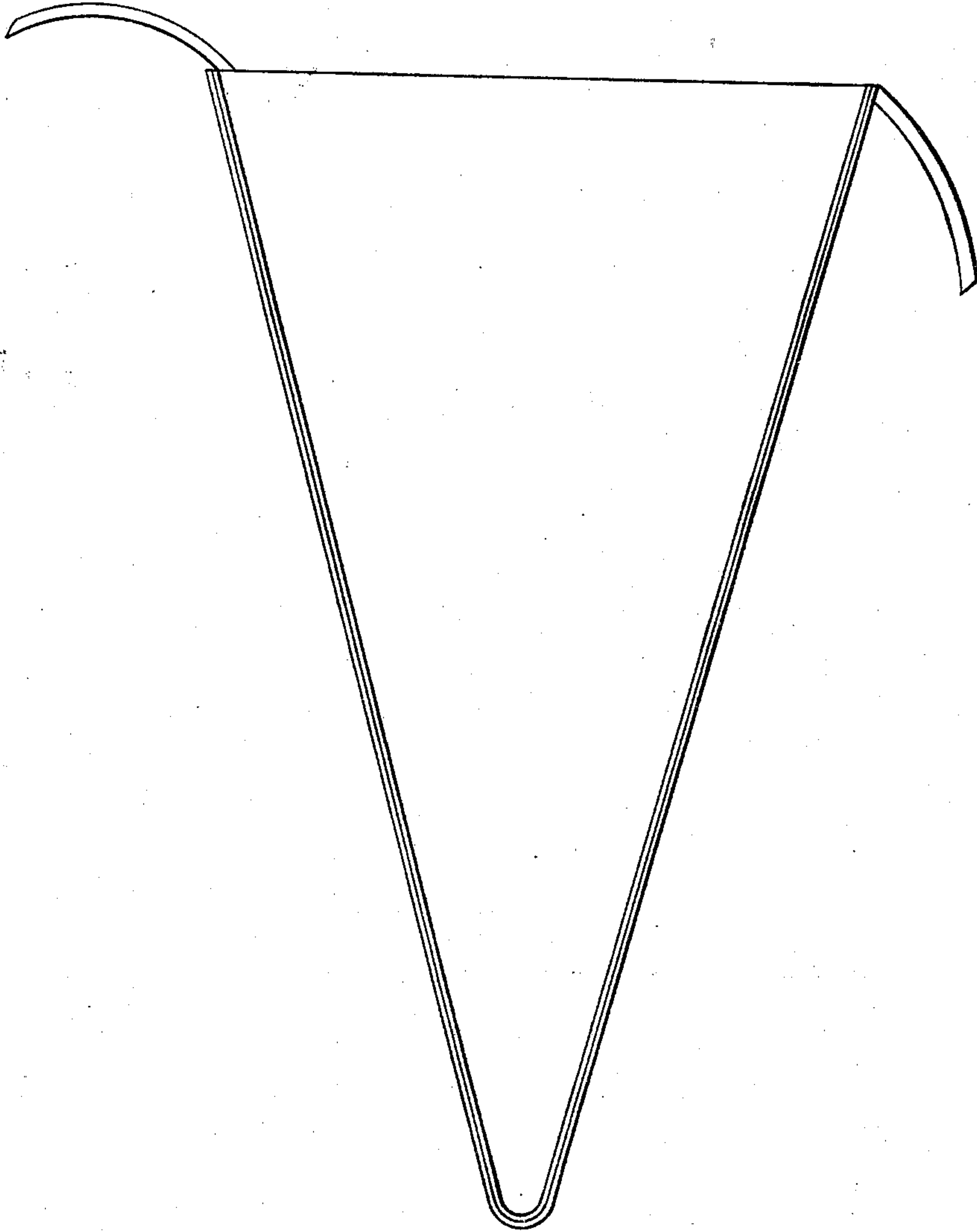


*J. Brown,*

*Tiler.*

*No. 113491.*

*Patented Apr. 11. 1871.*



*Witnesses.*  
*Geo. H. Strong.*  
*Thos. L. Poole*

*Inventor.*  
*James Brown*  
*By his Attys.*  
*Dewey & Co.*

# United States Patent Office.

JAMES BROWN, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO IRA D. THOMPSON, OF SAME PLACE.

Letters Patent No. 113,491, dated April 11, 1871.

## IMPROVEMENT IN FILTERS.

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, JAMES BROWN, of the city and county of San Francisco, State of California, have invented an Improved Filterer; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

My invention relates to an improved filterer or strainer, through which liquids of all kinds, but more particularly liquors, can be passed, and in their passage be deprived of any undissolved or foreign particles or matter which they may contain.

To make my filterer I take from three to five sheets of unsized paper and place them in any suitable vessel, and dampen or wet them with a small quantity of the liquid which is to be filtered. I then macerate them, by any suitable means, until they have been reduced to a pulp.

The vessel is then filled with the liquid and thoroughly mixed with the pulp.

An inverted conical bag or filter, which may be made of flannel, muslin, or other porous or weft material, is then suspended over the receiving-tank and the contents of the first-named vessel poured into the bag.

The drawing off of the liquid in the bag will cause

the pulped paper to be drawn against the inside of the filter and adhere in an even and regular manner.

The first three or four gallons which pass through the filter should be poured back and re-strained after the pulp has become set upon the sides.

About forty gallons of ordinary liquor can be passed through one of these filters before it becomes clogged up, when it can be cleaned by washing it in clean water until the adhering pulp is removed; after which, if not wanted for immediate use, it can be hung up to dry; but when used again the same operation above described is repeated.

By the use of this filter any liquid can be readily and thoroughly cleansed, but more particularly wines and liquors, which, after passing through the filterer, will be of extraordinary purity, and greatly improved in quality and color.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

A filtering-vessel or sack constructed as above described, and lined with pulped paper, substantially in the manner set forth.

In witness whereof I have hereunto set my hand and seal.

Witnesses: JAMES BROWN. [L. S.]

GEO. H. STRONG,

JNO. L. BOONE.