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50,220

## UNITED STATES PATENT OFFICE.

JOHN CHILCOTT, OF BROOKLYN, NEW YORK.

## IMPROVED METHOD OF REVIVIFYING LOAM LUTING.

Specification forming part of Letters Patent No. 50,220, dated October 3, 1865; antedated September 22, 1865.

*To all whom it may concern:*

Be it known that I, JOHN CHILCOTT, of No. 70 Fulton street, in the city of Brooklyn, county of Kings, and State of New York, have invented a new and useful Mode of Revivifying the Loam Luting used for Luting Gas and other Retorts; and I do hereby declare that the following is a full, clear, and exact description of the same.

The loam luting commonly used for luting gas-retorts after having been once used has heretofore been generally discarded as worthless, and as large quantities are used, not only has the expense of obtaining it and bringing it to the gas-works been a very considerable item of expenditure, but much further expense has been incurred in carting it.

The object of this invention is to save a great portion of this expense by enabling a portion of the luting to be used over again; and to this end the said invention consists in taking a portion of the luting which has been used, grinding or otherwise reducing it to a plastic state with a suitable quantity of water, and adding a sufficient quantity of fresh loam to revivify it or give it sufficient cohesiveness for further use. The quantity of fresh loam which it is necessary to add to the old or spent luting will depend upon the quality of the loam—that is to say, upon the quantity of clay it contains—a loam which is rich in clay requiring a less quantity of fresh loam to revivify it. The requisite proportion of the latter may vary from ten to seventy-five per cent. of the quan-

tity of spent luting, but can only be determined with anything like accuracy by experiment.

The spent luting may be revivified in this way several times, but as it will be further impoverished after every use the proportion of new loam added may require to be increased every time to the extent of from five to ten per cent., as may be determined by practice.

It is impossible to assign any limit to the number of times that the revivifying process may be repeated with profit or advantage; but, except with the very poorest or least cohesive loams, some portion of the spent luting may always be used over again with fresh loam.

The grinding or reduction of the spent luting with water to bring it to the plastic state may be performed in any suitable mill, and the new loam may be ground up with it to effect a perfect mixture.

This is not only a more simple but less expensive mode of revivifying loam luting than that covered by my Letters Patent of August 30, 1864, as this only requires the addition of fresh loam, while that requires the addition of clay, graphite, and lime.

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

The revivification of spent-loam luting by the addition of fresh loam, substantially as herein specified.

JOHN CHILCOTT.

Witnesses:

CHAS. E. FROST,  
HIPPOLYTE MAILL.