

(No Model.)

T. MCGOWAN.
SHEET PACKING.

No. 492,420.

Patented Feb. 28, 1893.

Fig. 1.

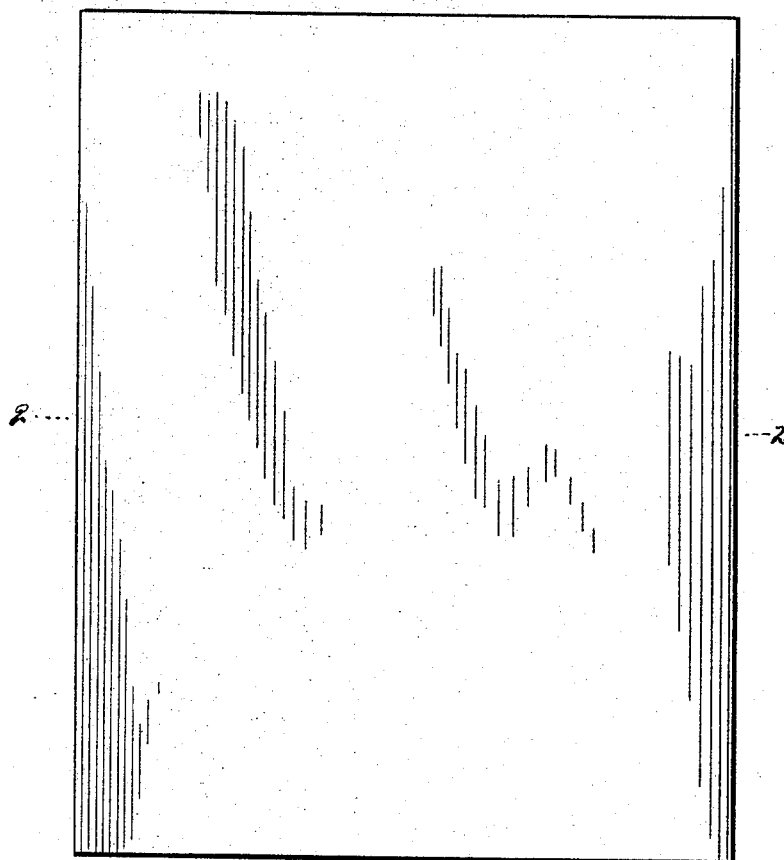


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

THOMSON MCGOWAN, OF CLEVELAND, OHIO.

SHEET-PACKING.

SPECIFICATION forming part of Letters Patent No. 492,420, dated February 28, 1893.

Application filed May 9, 1892. Serial No. 432,369. (No specimens.)

To all whom it may concern:

Be it known that I, THOMSON MCGOWAN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Sheet-Packing; 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 pertains to make and use the same.

My invention relates to sheet-packing, impervious to such substances as, for instance, petroleum, and sulphuric-acid, and being well adapted, therefore, for use in the treatment of, or in connection with, such substances; and my improved packing consists in a disk or sheet of paper, cloth, or equivalent absorbent material, saturated with an easy-flowing liquid compound, obtained by saturating glycerine with a basic oxide that will chemically unite with the glycerine.

In the accompanying drawings, Figure 1 is a view of my improved packing, and Fig. 2 is a section of same on line 2—2 of Fig. 1.

To make this liquid substance with which the sheet of absorbent material is saturated, take such quantities of basic oxide as will saturate the glycerine used. The basic oxide, as already indicated, must be such as will chemically unite with the glycerine, as for instance, oxides of lead, zinc, or manganese, and to make the packing, the sheet of absorbent material is saturated with the aforesaid liquid substance.

Heretofore, there has been great difficulty in packing the joints, for instance, of steam-

pumps used for pumping petroleum oil, and the difficulty was greatly increased where a high pressure was employed and where the same pump was used successively for pumping oil and water. With the packing hereinbefore described, there is no difficulty in making tight joints that will withstand alike the action of oil and water and with any pressure that is likely to be employed in pumping.

I am aware that a composition consisting of glycerine and litharge mixed to a mass has been employed for a similar purpose and that a packing for stuffing boxes consisting of rope or other fibrous material saturated with glycerine and impregnated with powdered substance such as plumbago, asbestos and soapstone, has been used and I make no claim to such compositions, but,

What I claim is—

A packing impervious to such liquids as oil and sulphuric-acid, the same comprising a disk or sheet of paper, cloth, or equivalent absorbent material saturated with a substance obtained by saturating glycerine with a basic oxide that will chemically unite with the glycerine, substantially as, and for the purpose set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 11th day of April, 1892.

THOMSON MCGOWAN.

Witnesses:

C. H. DORER,
WARD HOOVER.