

(No Model.)

F. E. SMITH.
ABSORBENT PAD.

No. 467,624.

Patented Jan. 26, 1892.

Fig 1

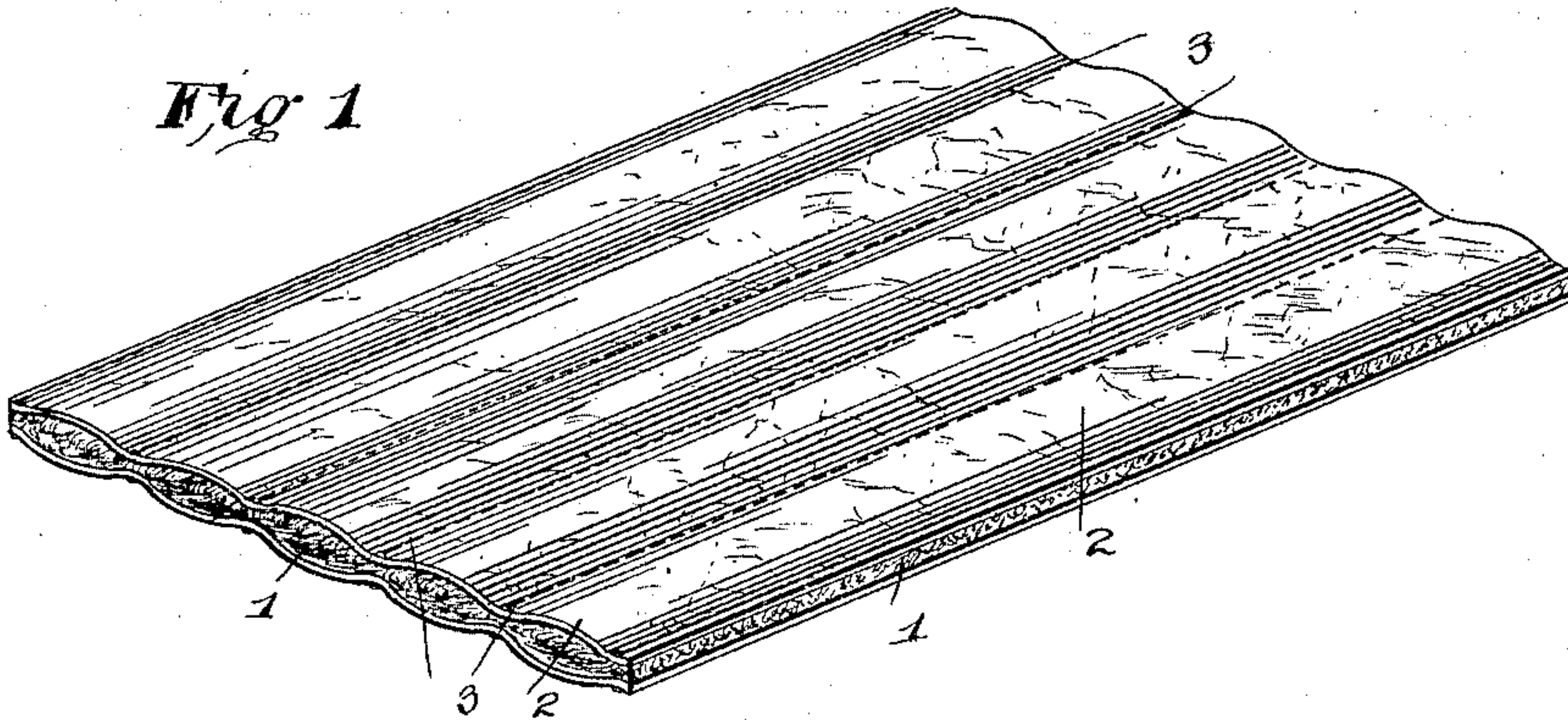


Fig 2

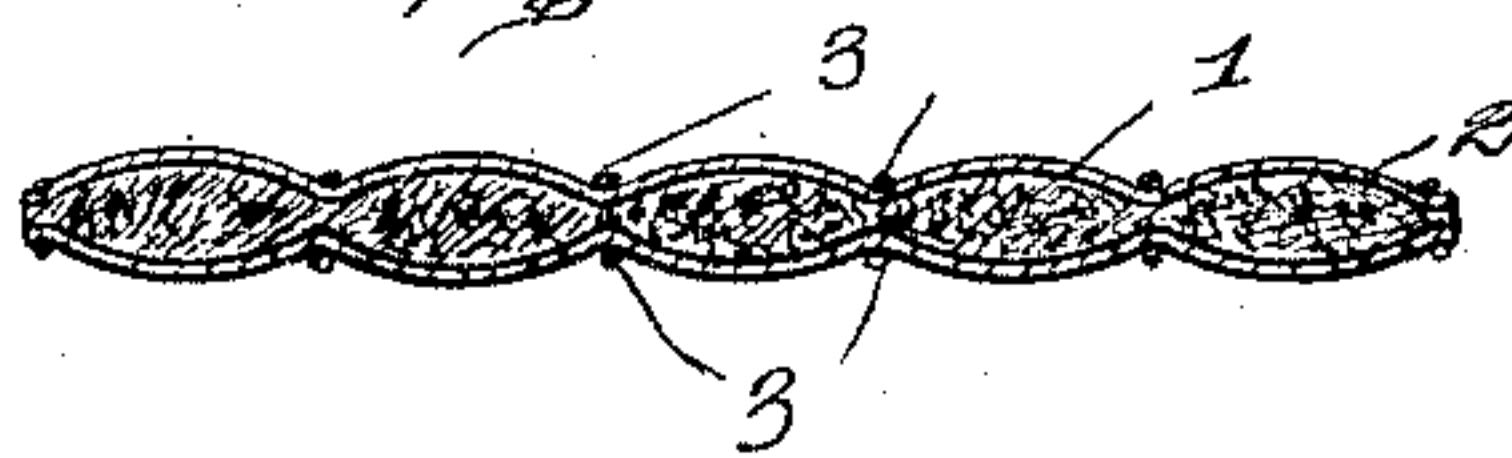
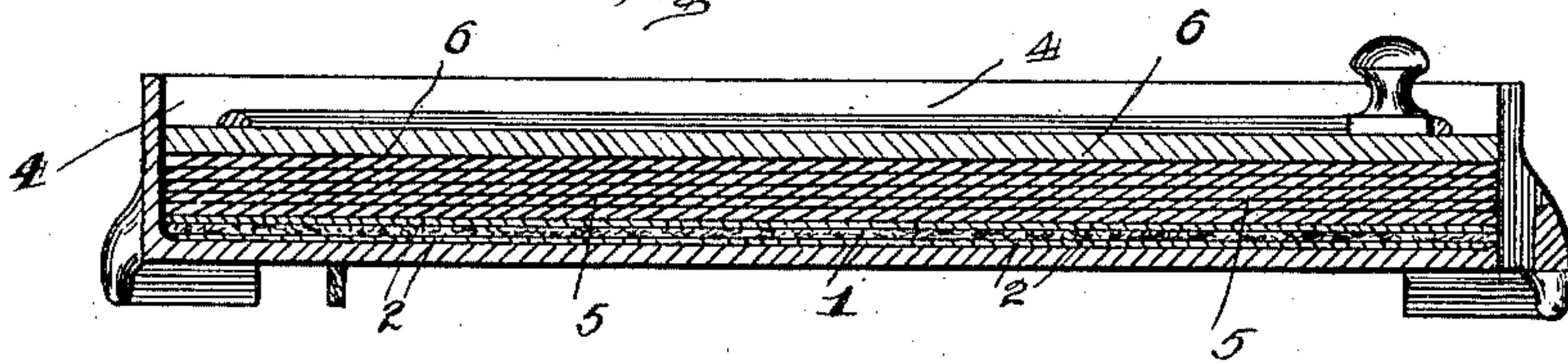


Fig 3



Witnesses

Isaac Behrend.

W. S. Duval.

Inventor

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By his Attorneys,

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UNITED STATES PATENT OFFICE.

FRANK ELLAS SMITH, OF TOLEDO, IOWA.

ABSORBENT PAD.

SPECIFICATION forming part of Letters Patent No. 467,624, dated January 26, 1892.

Application filed January 14, 1891. Serial No. 377,720. (No model.)

To all whom it may concern:

Be it known that I, FRANK ELLAS SMITH, a citizen of the United States, residing at Toledo, in the county of Tama and State of Iowa, have invented a new and useful Absorbent Pad, of which the following is a specification.

This invention relates to pads.

The objects in view are to provide a pad of an absorbent nature and adapted to absorb and retain liquid, said pad being of simple and cheap construction and easy of manufacture.

The pad herein described is especially designed for use in connection with blotter-baths, though, as will hereinafter be apparent, the same will be found useful for many different things, and hence, though especially adapted for the purpose stated, is not so limited.

The invention consists in a pad having an inner layer of sponge, said layer being either formed of a single slice, a series of slices, or of minute pieces, and, furthermore, in external covers or layers which may be, if desired, sewed through and through with the internal layer or woven in said layers, or otherwise secured.

Referring to the drawings, Figure 1 is a perspective of a pad constructed in accordance with my invention. Fig. 2 is a transverse section. Fig. 3 is a view illustrating my pad in connection with a blotter-bath.

Like numerals of reference indicate like parts in all the figures of the drawings.

I preferably employ small particles of sponge which may be otherwise wasted, and, spreading the same in a thin layer upon a sheet of fabric, mount a second sheet thereover, stitch through the two external layers and the inner layer, and afterward cut into pads of suitable dimensions. If desired, however, the cutting may be done before the stitching, and, as before stated, I may employ an integral sheet of sponge or several sheets, instead of the small particles heretofore described.

1 designates the internal layer of sponge, composed of small particles, and 2 the exter-

nal layers or sheets of fabric. The three layers are connected by variously-disposed lines of stitches 3, which serve to maintain the three layers intact.

4 designates the tank of a blotter-bath ordinarily used for copying-presses and usually constructed of tin or cast metal. The tank is partially filled with water and the absorbent-pad located in the bottom of the same. Upon this is superimposed a series of sheets of blotting-paper 5 or other copying mediums, the whole surmounted by a heavy metal lid 6.

The water in the tank I have found by experience is readily absorbed by the lower blotters of the series and becomes so impregnated as to render a partial drying of the same necessary previous to use, while the upper blotters of the series will have hardly sufficient water to result in a satisfactory copy being made. By my invention, however, I absorb all water at the bottom of the tank and provide a pad that will emit the same in exactly the quantity necessary to sufficiently impregnate each blotter, the emission being in the form of evaporation.

Having described my invention, what I claim is—

1. The herein-described pad, consisting of an inner layer formed of small particles of sponge and upper and lower outer layers of fabric, the three layers being connected by a series of longitudinal lines of stitching, substantially as specified.

2. The herein-described pad, consisting of the sponge filling formed of small particles of sponge and the inclosing fabric, the edges of the fabric being secured together by lines of stitching, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FRANK ELLAS SMITH.

Witnesses:

HORACE T. ARB,
W. A. DEXTER.