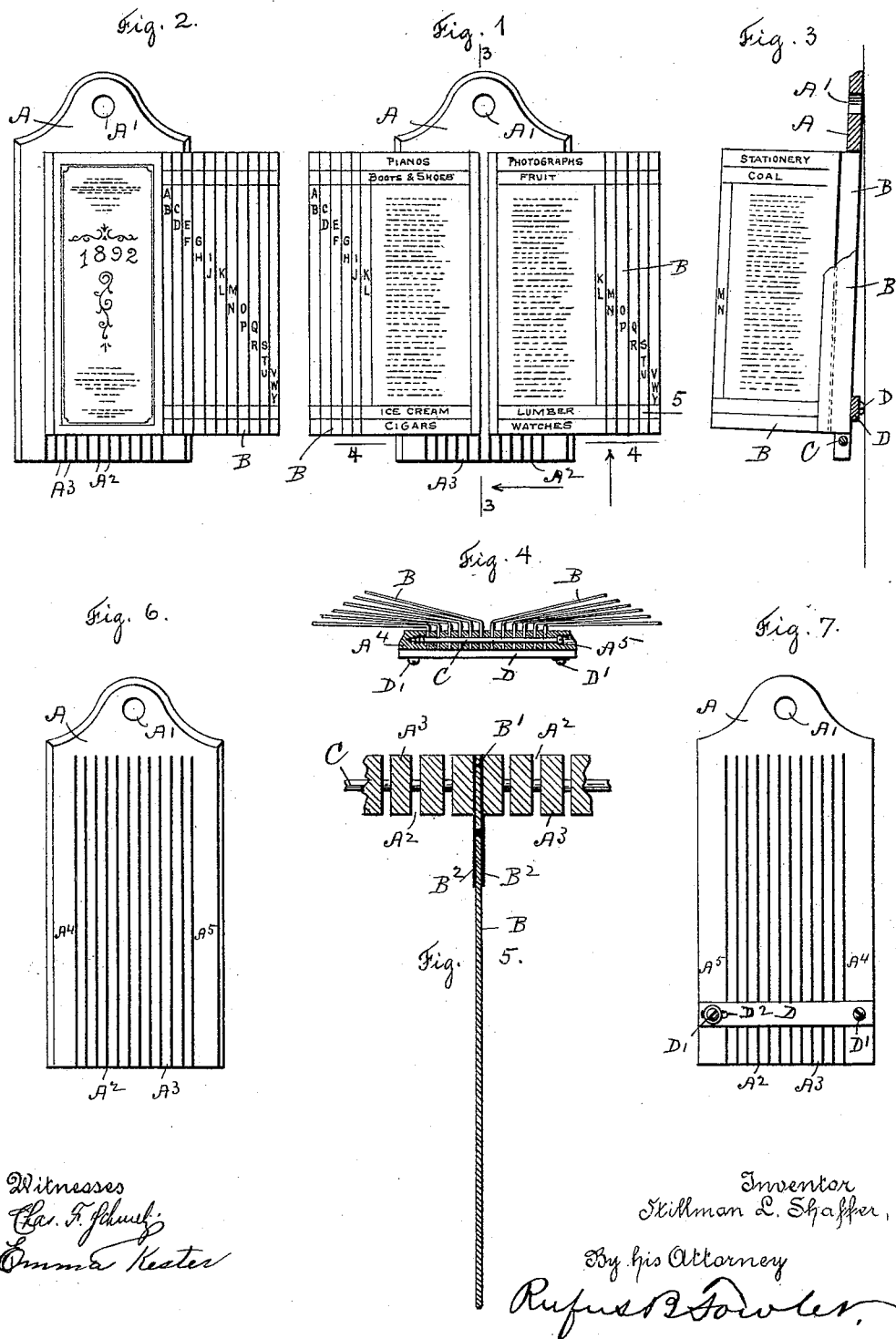


(No Model.)

S. L. SHAFFER.  
TELEPHONE INDEX.

No. 493,304.

Patented Mar. 14, 1893.



# UNITED STATES PATENT OFFICE.

STILLMAN L. SHAFFER, OF WORCESTER, MASSACHUSETTS.

## TELEPHONE-INDEX.

SPECIFICATION forming part of Letters Patent No. 493,304, dated March 14, 1893.

Application filed October 25, 1892. Serial No. 449,961. (No model.)

*To all whom it may concern:*

Be it known that I, STILLMAN L. SHAFFER, a citizen of the United States, and a resident of Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in a Telephone-Index, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a front view of the same, with the leaves opened. Fig. 2 represents a front view of a telephone index embodying my invention. Fig. 3 is a vertical sectional view on line 3, 3, Fig. 1. Fig. 4 is a transverse sectional view on line 4, 4, Fig. 1. Fig. 5 is a transverse sectional view of a portion of the back of the index shown on line 5, Fig. 1, with a single leaf inserted, the several parts being represented full size. Fig. 6 is a front view of the back of the index with the leaves removed and Fig. 7 is a rear view of the back, shown in front view in Fig. 6.

Similar letters refer to similar parts in the different figures.

My invention relates to certain improvements in that class of telephone indexes, in which a series of indexed leaves, are supported upon a rigid back, adapted to be suspended, and hold the leaves in position for convenient manipulation and my invention has for its object to provide a cheap and efficient means for supporting the indexed leaves, which I attain by means of the device, represented in the accompanying drawings and hereinafter described and claimed.

Referring to the accompanying drawings, A denotes the back of the index, preferably formed of wood and consisting of a board from one-quarter to one-half inch in thickness, and provided with a hole A', or other convenient means, by which it can be suspended, or hung against the wall. The board is provided with a series of slits A<sup>2</sup>, forming a series of prongs A<sup>3</sup>, which is readily accomplished by sawing the board, in parallel slits, each the width of the saw-kerf, and the thickness of the cardboard forming the leaves of the index.

The leaves B are preferably made of cardboard, of uniform width and have at one edge

a stub B' formed of a narrow strip of cardboard united by strips B<sup>2</sup> of canvas, leather, or other flexible material, so as to make a joint between the leaf and stub. The stubs B' are inserted in the slits A<sup>3</sup> and the side prongs A<sup>4</sup>, A<sup>5</sup>, which are preferably left wider than the prongs A<sup>3</sup>, by which the leaves are separated, are then drawn together clamping the studs B' securely between the prongs A<sup>3</sup>. The leaves can be clamped by any known device, but I prefer to unite the outer prongs A<sup>4</sup>, A<sup>5</sup>, by a screw C, inserted in the board with the tip screwed into the prong A<sup>4</sup>, with its head bearing against the prong A<sup>5</sup>. Upon the rear side of the back A, I place a cleat D, by which the lower end of the board is thrown out from the wall as represented in Fig. 3.

The cleat D is attached to the prongs A<sup>4</sup> and A<sup>5</sup>, by screws D', D', one of which passes through a slot D<sup>2</sup>, thereby allowing the prongs A<sup>4</sup> and A<sup>5</sup> to be pressed together and retained in place by the screws D' and cleat D, and in some cases the screw C will not be needed, for example, where a small number of leaves is required.

The width of the board A will depend upon the number of leaves required and the width of the prongs A<sup>3</sup>, by which the leaves are separated is sufficient to allow the edges of the leaves when closed together, to project far enough to disclose the index letters.

The leaves are readily removed by loosening the clamping device, and allowing the prongs A<sup>4</sup>, A<sup>5</sup> to separate.

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

1. In a telephone index, the combination of the back, cut to form therein a series of parallel slits and a series of parallel prongs, with a series of indexed leaves inserted and detachably held within the slits, substantially as described.

2. In a telephone index, the combination of a rigid back A, provided with a series of parallel slits, a series of indexed leaves provided with stubs united to said leaves by a flexible joint, said stubs being inserted in said slits and means for clamping the same in position, substantially as described.

3. In a telephone index, the combination

of a back provided with a series of parallel  
slits, forming elastic prongs, leaves inserted  
in said slits, and a clamping screw by which  
said prongs are drawn together, substantially  
5 as described.

4. In a telephone index, the combination  
of a back provided with a series of parallel  
slits, forming elastic prongs, leaves inserted

in said slits, and a clamping device by which  
said prongs are drawn together, substantially 10  
as described.

Dated this 20th day of October, 1892.

STILLMAN L. SHAFFER.

Witnesses:

RUFUS B. FOWLER,

EMMA KESTER.