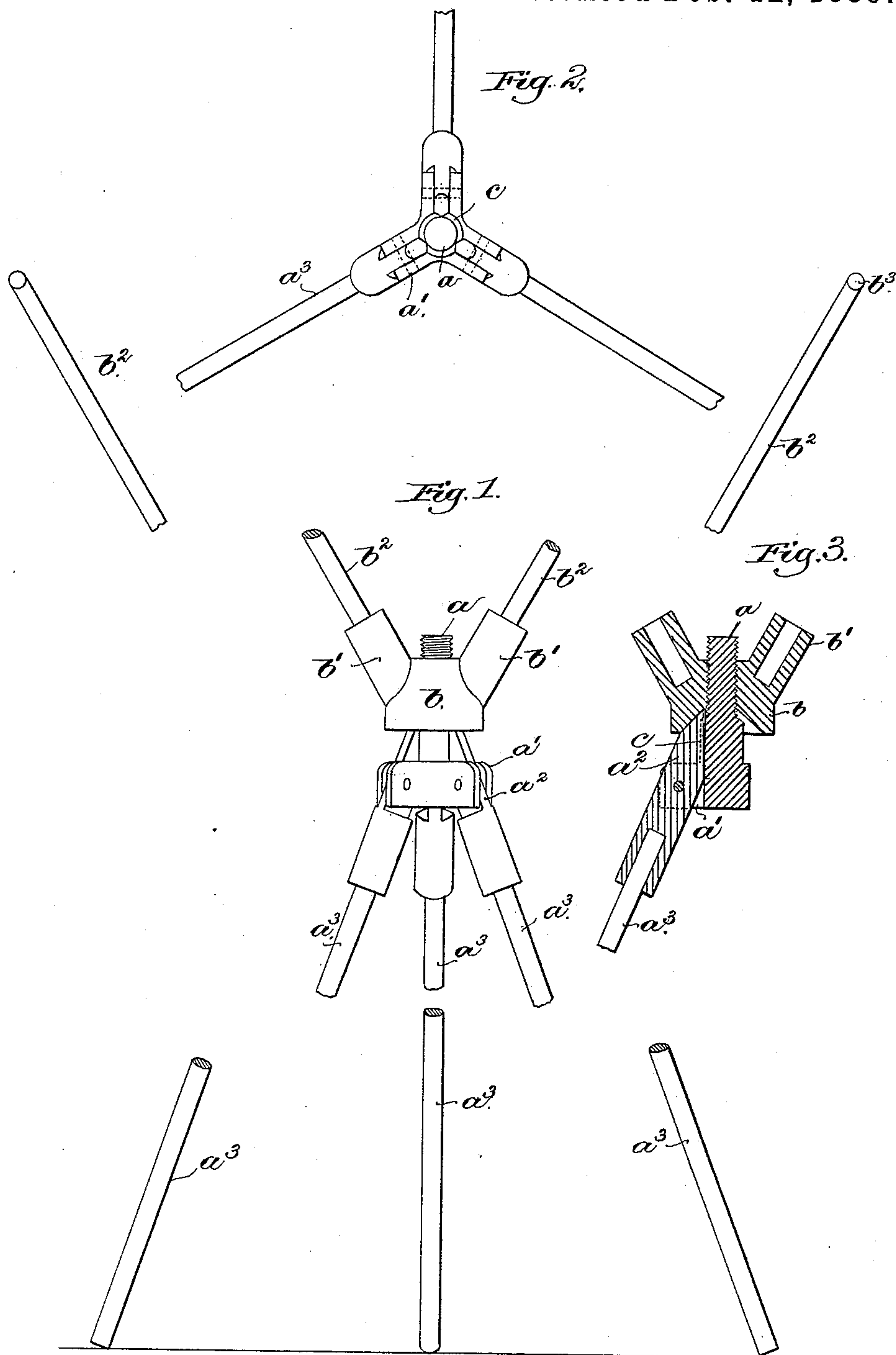


(No Model.)

L. B. SOMERBY.
STAND FOR CHARTS, &c.

No. 397,759.

Patented Feb. 12, 1889.



Witnesses.
Fred. S. Greenleaf.
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UNITED STATES PATENT OFFICE.

LORENZO B. SOMERBY, OF BOSTON, MASSACHUSETTS.

STAND FOR CHARTS, &c.

SPECIFICATION forming part of Letters Patent No. 397,759, dated February 12, 1889.

Application filed October 18, 1888. Serial No. 288,446. (No model.)

To all whom it may concern:

Be it known that I, LORENZO B. SOMERBY, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in
5 Stands for Charts, &c., of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to provide
10 a novel stand or tripod especially adapted to be used among other things for supporting charts and like articles, my improved stand being composed of independent parts capable of being readily detached from one another, so that the stand may be folded compactly to occupy a small space, which is especially desirable in transportation from one place to another—as, for instance, in shipment on cars.

My invention therefore consists in the combination, with a spindle provided with lugs or ears, of castings pivoted to said lugs or ears and provided with legs, and a rod-supporting sleeve secured upon said spindle against vertical movement, substantially as described, and engaging said castings to lock them and their attached legs in operative position, substantially as will be described.

Figure 1 in elevation represents the stand
30 in position to be used, the legs being broken out, and also the rods to which the chart (not shown) is to be attached to save space in the drawings. Fig. 2 is a top or plan view of the lower portion of the stand, the sleeve provided with the chart-supporting rods being
35 omitted; and Fig. 3 is a sectional detail to be referred to.

My improved stand is composed, essentially, of an upper and lower portion detachably secured together, as will be described.

The lower portion of the stand is composed of a spindle, *a*, provided, as shown, with ears or lugs *a'*, to which are pivoted castings *a''*, having secured to or forming part of them
45 rods *a'''*, comprising the legs of the stand. The spindle *a* is herein represented as provided with threads for a portion of its length to cooperate with a threaded sleeve, *b*, provided, as shown, with arms *b'*, extended at an angle therefrom and adapted to receive the chart-supporting rods *b''*, preferably curved at their

upper end, as at *b'''*, and to which the chart or other object to be sustained will be secured in any usual manner, the said sleeve and rods constituting the upper portion of my improved
55 stand. Below the threaded portion of the spindle I have provided V-shaped vertical slots, (see Figs. 2 and 3,) into which slots enter the ends of the castings *a''*, so that when the said legs are spread apart with the ends of the castings in the said slots, and the sleeve *b* is turned
60 down to fit over the said castings, the latter are prevented from wobbling or side movement.

The sleeve *b* is made cup-shaped at its under side, as herein shown, so that when the said sleeve is screwed upon the spindle *a* into operative position the cup-shaped bottom of the sleeve extends over or overlaps the small upper ends of the castings *a''*, as shown in
70 Fig. 3, thereby preventing the legs from being folded up while the stand is in use. So also the cup-shaped bottom overlapping the castings as described permits the sleeve *b* to be turned round on the spindle *a* one or more
75 times to bring the chart or other object supported by the rods *b''* into any desired position.

My improved stand may be readily taken apart and compacted into small space, the
80 rods *b''* being detached from the arms *b'* and the sleeve *b* unscrewed from the spindle *a*, and the legs *a'''* then folded up, so that the stand when folded together occupies but substantially little space and can be readily transported.

I claim—

1. In a stand for charts, &c., the combination, with a spindle, *a*, provided with lugs or ears, of castings pivoted to said lugs or ears
90 and provided with legs, and a rod-supporting sleeve, *b*, secured upon said spindle against vertical movement, substantially as described, and engaging said castings to lock them and their attached legs in operative position, substantially as described.

2. In a stand for charts, &c., the combination, with a spindle, *a*, of castings pivoted thereto and provided with legs, and a rod-supporting sleeve, *b*, secured upon said spindle against vertical movement, substantially
100 as described, and cup-shaped at its under side

to engage the said castings to lock them in operative position, substantially as described.

3. In a stand for charts, &c., the spindle *a*,
5 provided with ears, an annular collar or hub
secured thereto and provided with slots, and
castings *a*², pivoted to the said ears, and legs
secured to said castings, the ends of the said
castings being adapted to fit into the said
slots, combined with a sleeve cup-shaped at
10 its under side and screwed upon said rod and
provided with arms to receive chart-sustain-
ing rods, substantially as described.

4. In a stand for charts, &c., a spindle, *a*,
provided with screw-threads, and castings pro-

vided with legs pivoted to said spindle, com- 15
bined with a threaded sleeve, *b*, cup-shaped
at its under side, screwed upon said spindle,
and having its bottom cup-shaped to fit over
the ends of said castings, and rods to sustain
the chart or like object secured to said sleeve, 20
substantially as described.

In testimony whereof I have signed my name
to this specification in the presence of two
subscribing witnesses.

LORENZO B. SOMERBY.

Witnesses:

JAS. H. CHURCHILL,
B. DEWAR.