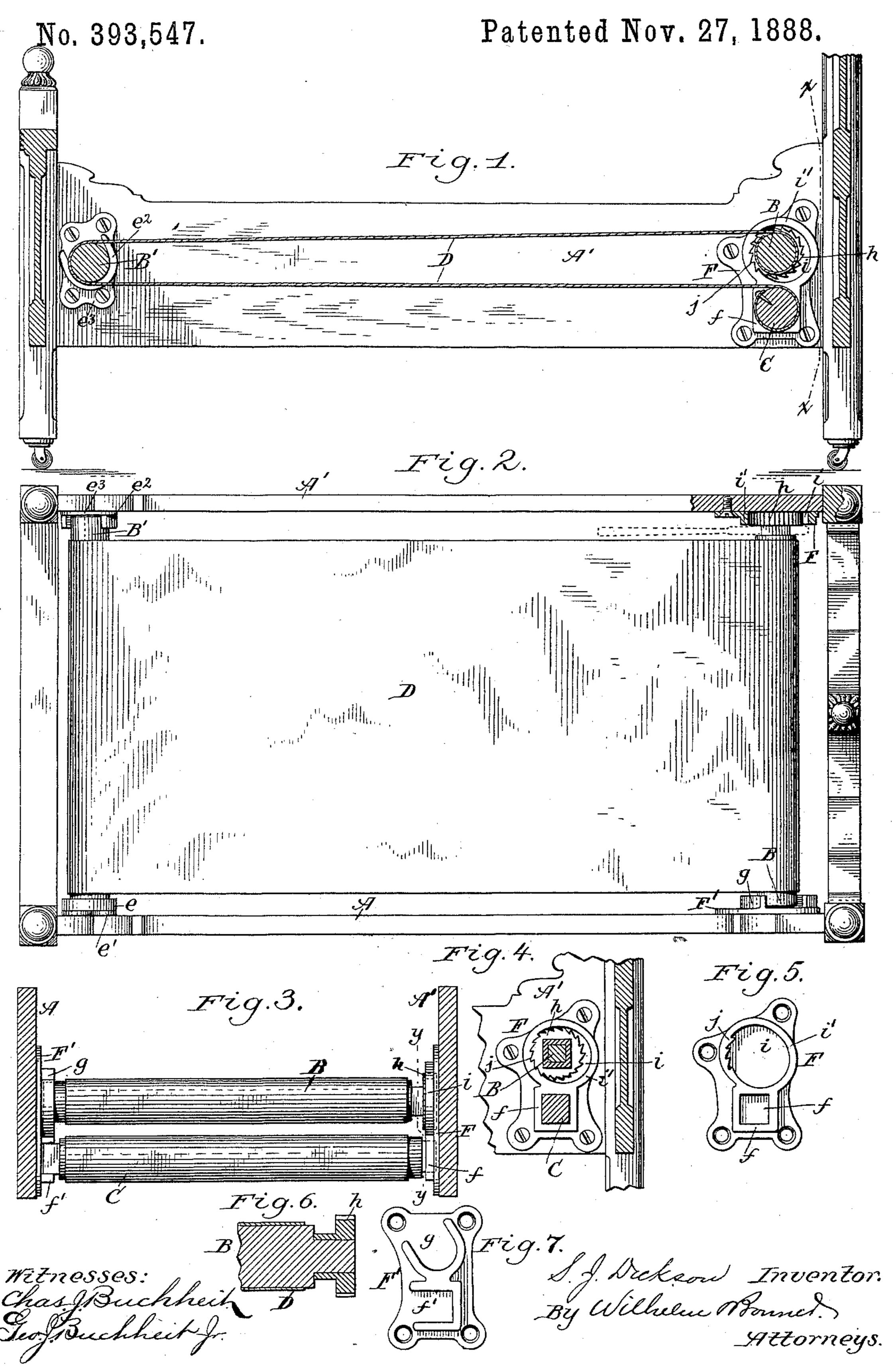
S. J. DICKSON.

BED BOTTOM.



United States Patent Office.

SAMUEL J. DICKSON, OF CHICAGO, ILLINOIS.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 393,547, dated November 27, 1888.

Application filed July 21, 1888. Serial No. 280,651. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL J. DICKSON, of Chicago, in the county of Cook and State of Illinois, have invented new and useful Im-5 provements in Bed-Bottoms, of which the fol-

lowing is a specification.

This invention relates to that class of bedbottoms which consist of a strip of canvas or similar flexible material attached with its ends to to supporting-rollers, between which the canvas is stretched by winding the same upon said rollers.

The object of my invention is to construct the bed-bottom in such a manner as to render 15 the same more yielding or elastic, and also to improve the means whereby retrograde movement of the stretching-roller is prevented.

My invention consists of the improvements which will be hereinafter fully described, and

20 pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional elevation of a bedstead provided with my improved bed-bottom. Fig. 2 is a top plan view thereof. Fig. 3 is a trans-25 verse section in line x x, Fig. 1. Fig. 4 is a cross-section in line y y, Fig. 3. Fig. 5 is an elevation of one of the supporting brackets of the stretching-roller. Fig. 6 is a fragmentary longitudinal section of the stretching-roller. 30 Fig. 7 is an elevation of the opposite supporting-bracket of the stretching-roller.

Like letters of reference refer to like parts

in the several figures.

A A' represent the side frames of the bed-35 stead.

B represents the horizontal stretching-roller arranged at the head of the bedstead between the side frames, A A'.

B' is a horizontal roller journaled at the foot 40 of the bed, and C is a cross piece or bar ar-

ranged below the stretching-roller.

D represents the canvas or other flexible material, which runs around the foot-roller B', and is secured with one end to the stretching-roller 45 B, and with its opposite end to the cross-piece C. The foot-roller B' is preferably journaled at one end in a closed socket, e, formed in a bracket or plate, e', secured to the inner side of the side piece A, and at its opposite end in 5c a jaw or open socket, e^2 , formed in a bracket, e^3 , secured to the inner side of the side piece A', so that the foot-roller can be readily in-

serted in its bearings and be removed therefrom when desired.

The cross-bar C is provided with square or 55 flat-sided ends, and is seated at one end in a square socket, f, formed in a bracket, F, secured to the inner side of the side piece A' near the head of the bed, and at its opposite end in a three-sided socket, f', formed in a 60 bracket, F', secured to the inner side of the side piece A. The open socket f' permits the cross bar C to be removed.

The stretching-roller B is journaled with one end in a jaw or open socket, g, formed in 65 the bracket F' above the socket f', and is provided at its opposite end with a ratchet-wheel, h, which is loosely fitted in a closed socket, i, formed in the bracket F above the square socket f. The socket i is formed by a project- 70 ing rim, i', formed on the bracket F, and is made somewhat larger than the ratchet-wheel h, so as to allow of a slight play of the ratchetwheel in the socket.

j represents a series of teeth or projections 75 formed on the front portion of the rim i' within the socket i, and which engage with the teeth of the ratchet-wheel when the latter rests against said teeth, and thereby prevents retrograde movement of the ratchet-wheel and the 80 stretching-roller. The teeth j are provided with abrupt faces and inclined backs, so as to limit the backward movement of the ratchetwheel, while permitting the same to turn forwardly by its teeth riding over the inclined 85 backs of the teeth j.

The end of the stretching-roller B adjacent to the ratchet-wheel h is preferably made flatsided, so that the same can be turned by a proper wrench or tool. Upon turning the 90 stretching-roller forwardly the end of the canvas D is wound upon the roller B, and is drawn around the foot-roller B' and tightly stretched. Upon releasing the stretching-roller the elasticity of the canvas draws the ratchet-wheel h_{-95} forwardly against the teeth j of the socket i, thereby causing the teeth of the ratchet-wheel to engage with the teeth of the socket and preventing backward movement of the stretchingroller. When the canvas becomes loose and roo sags, it is again stretched by giving the stretching-roller B a forward turn.

The stop device of the stretching-roller is very simple in construction, and it avoids the

use of pawls or other devices, which are liable to become broken, and which increase the cost of the bed-bottom.

The bed-bottom is readily removed from the 5 bedstead by withdrawing the supporting-roll-

ers BB' and the cross-bar C from their sockets, the rollers and the cross bar being mounted at one end in open sockets, as shown, so that this

can be conveniently done.

By doubling the canvas of the bed-bottom or arranging the same in two lengths, as shown, its stretching area is enlarged, and the bottom is rendered more yielding and comfortable.

I claim as my invention—

1. In a bed-bottom, the combination, with the side frames provided at opposite ends with suitable brackets, of a cross-bar, C, journaled in the brackets at one end of said frame, a 20 stretching-roller, B, journaled in said brackets and arranged above the cross-bar C, and provided with a suitable ratchet device, a roller, B', journaled in brackets secured to the oppo-

site end of said frame, and a continuous strip of canvas, D, extending around the roller B' 25 at one end of the frame and secured at its ends to the cross-bar C, and roller B at the opposite end of the frame forming a double bottom, sub-

stantially as set forth.

2. The combination, with the frame of the 30 bedstead, the roller B', and the cross-bar C, having angular ends, of the stretching-roller B, provided at one end with a ratchet-wheel, h, a bracket, F', provided with angular and round sockets f'g, for receiving one end of said 35 stretching-roller and cross-bar, and a bracket, F, provided with an angular socket, f, for receiving the opposite end of the cross-bar C, and with a socket, i, supporting the opposite end of the stretching-roller and having internal 40 teeth, j, substantially as set forth.

. Witness my hand this 14th day of July, 1888. SAMUEL J. DICKSON.

Witnesses:

C. F. GEYER, FRED. C. GEYER.