

No. 646,471.

Patented Apr. 3, 1900.

G. T. SMALLWOOD & A. H. SULSER.

BOX COUCH.

(Application filed Nov. 8, 1899.)

(No Model.)

Fig. 1.

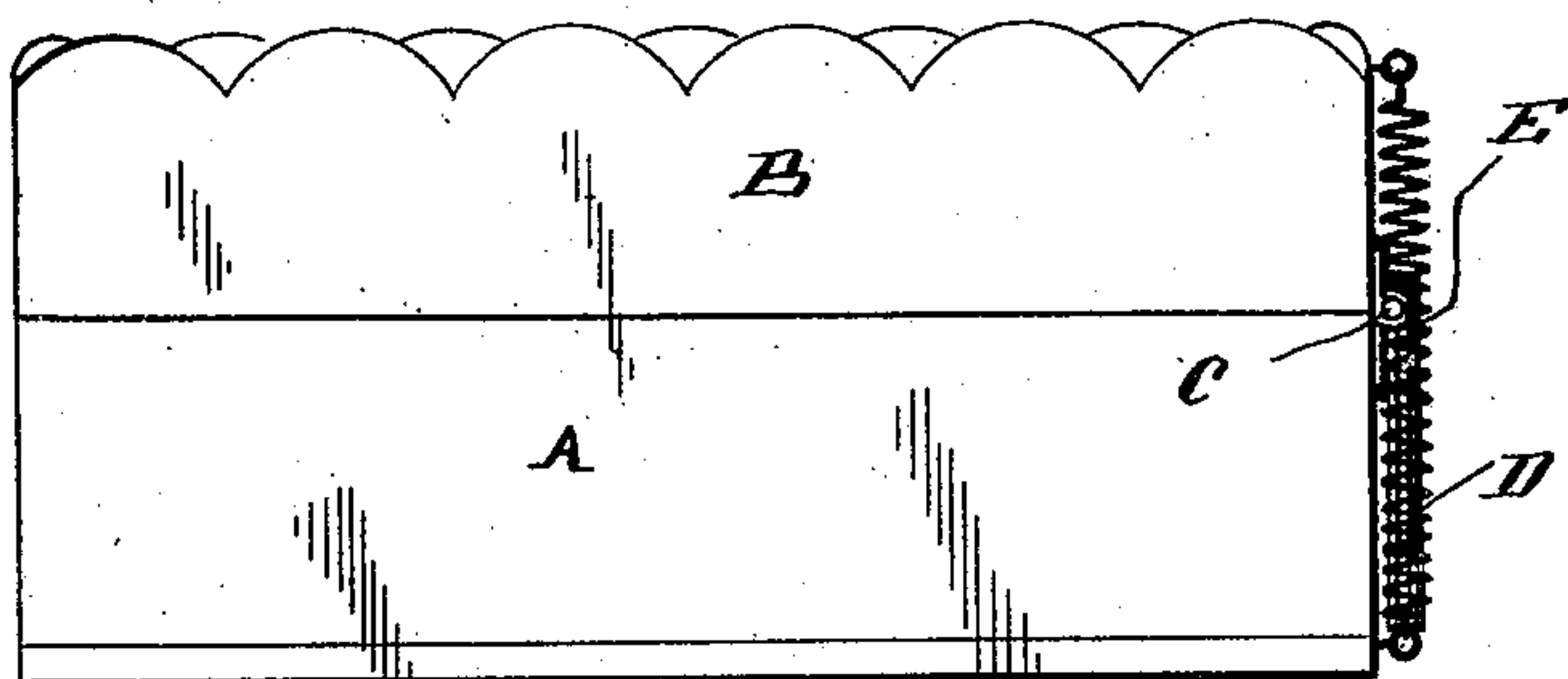


Fig. 3.

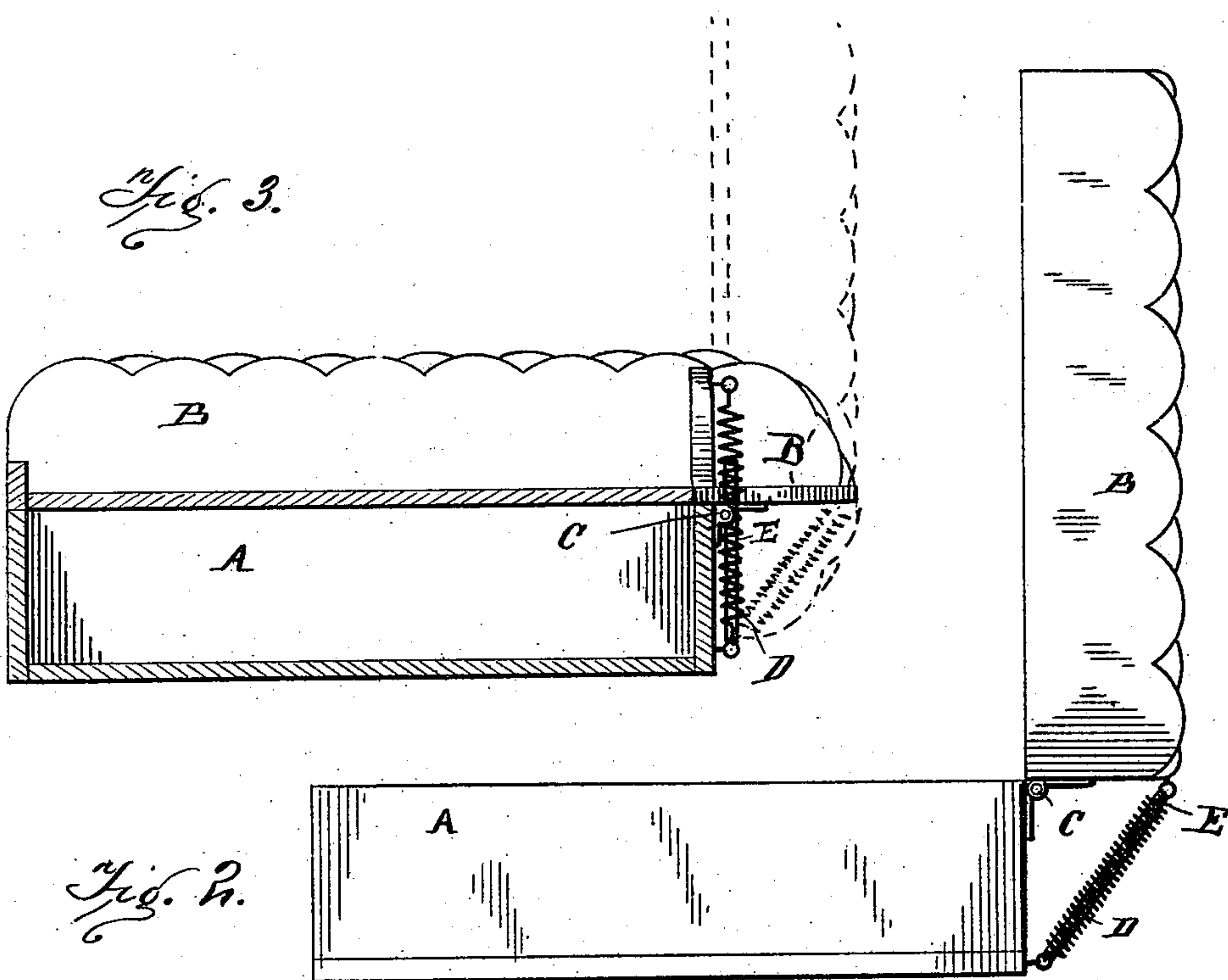


Fig. 2.

Witnesses
Charles H. Davies.
H. B. Ferkam

Inventors
George T. Smallwood
Adam H. Sulser
by J. T. Cameron
Their Attorney

UNITED STATES PATENT OFFICE.

GEORGE T. SMALLWOOD AND ADAM H. SULSER, OF WASHINGTON,
DISTRICT OF COLUMBIA.

BOX-COUCH.

SPECIFICATION forming part of Letters Patent No. 646,471, dated April 3, 1900.

Application filed November 8, 1899. Serial No. 736,225. (No model.)

To all whom it may concern:

Be it known that we, GEORGE T. SMALLWOOD and ADAM H. SULSER, residents of Washington, District of Columbia, have invented a new and useful Improvement in Box-Couches, which invention is fully set forth in the following specification.

Our invention relates to box-couches, and more particularly to a box-couch having the top or cover hinged at its rear edge directly to the upper edge of the box proper, combined with means acting to assist in the opening movement of the cover and a stop to determine the extent or limit of said opening movement.

We have illustrated our invention in the accompanying drawings, in which—

Figure 1 is a view of a vertical transverse section of a couch with the cover closed, and Fig. 2 is a like view with the cover open. Fig. 3 is a view of a modification.

Referring to the drawings, A is a box of the usual construction in this class of couches, and B is a cover, which may be a plain box-cover or upholstered, as desired, said cover being hinged to the box A by a plurality of hinges, as C.

D is a spring of any suitable construction, here shown as a simple coil-spring having one of its ends attached to the rear portion of the cover, preferably near its top, and the other end attached to the rear of the box A, preferably near its bottom. One or more of such springs may be employed, as may be found desirable. For the purpose of limiting the action of the spring in the opening movement of the cover we prefer to employ a suitable stop, here shown as a rod E, inserted within the coils of the spring D, the length of the rod being such that when the cover is thrown open, so that its rear side lies horizontal—i. e., at right angles to the plane of the rear wall of the box—the ends of the rod E will abut the walls of the box and the cover, respectively, or of suitable stop devices operating in connection with the spring for that purpose. If desired, such stop devices may be placed within the coils of the spring above and below the ends of the rod, thereby adjusting the action of the stop, so as to enable

it to determine the opening movement of the cover at any desired point.

It will be observed that the couch herein described is exceedingly simple, that the devices necessary to enable it to be readily opened and to be held in the proper position are cheap and easily applied, and that the construction and operation of the same are such that it is not liable to get out of order.

In the modification shown in Fig. 3 the rear edge of the cover B extends some distance to the rear of the rear wall of the box, and the spring is attached directly to the box and to an upwardly-projecting arm or bracket on the cover and near the top thereof, a slot being formed in the rearward projection on the cover to permit the spring to pass therethrough. In this form the cover may be opened, as shown in dotted lines, without withdrawing the couch from the wall against which it may be standing, and the rearward extension B' will when the cover is opened or raised abut against the rear wall of the box, thus acting as a stop for determining the opening movement of the cover. If desired, however, the rod E may be placed within the coils of the spring D, as in the construction illustrated in Figs. 1 and 2. In cases where it is desired to limit the opening movement of the cover before it has reached the full upright position this form of stop will be preferable to that afforded by the rear extension B' coming in contact with the rear wall of the box.

Having thus described our invention, what we claim is—

1. A box having its cover hinged to the rear wall thereof, a spring directly attached to the cover and to the box to assist in the opening movement of the cover, and a stop device acting in conjunction with the spring to limit the action of the latter.

2. The combination of a box and its cover hinged thereto, with a coil-spring attached at one end to the box and at the other end to the cover, and a rod acting as a stop to determine the opening movement of the cover.

3. The combination of a box, the cover therefor, hinges uniting the cover to the upper rear edge of the box, a coil-spring connected at one end to the cover and at the other end to

the box, and a rod within the coil-spring acting as a stop to determine the opening movement of the cover.

5 4. The combination of a box, a cover hinged to but projecting beyond the rear wall of the box, and a spring attached to the cover and to the box to assist in the opening movement of the cover.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

GEORGE T. SMALLWOOD.
ADAM H. SULSER.

Witnesses:

S. T. CAMERON,
WM. B. KERKAM.