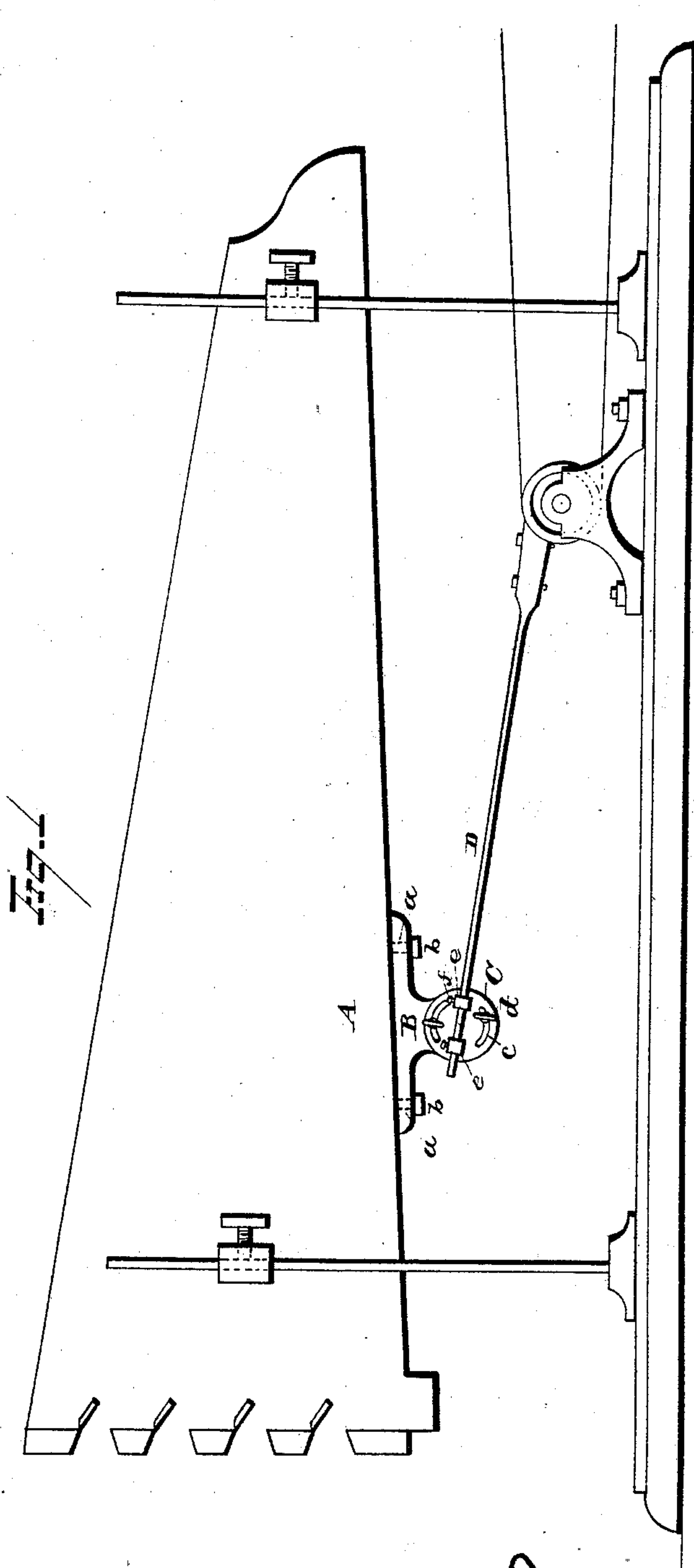


J. RUSSELL.
Pitman Connection.

No. 223,817.

Patented Jan. 27, 1880.



WITNESSES

Ed. Nottingham
A. W. Bright.

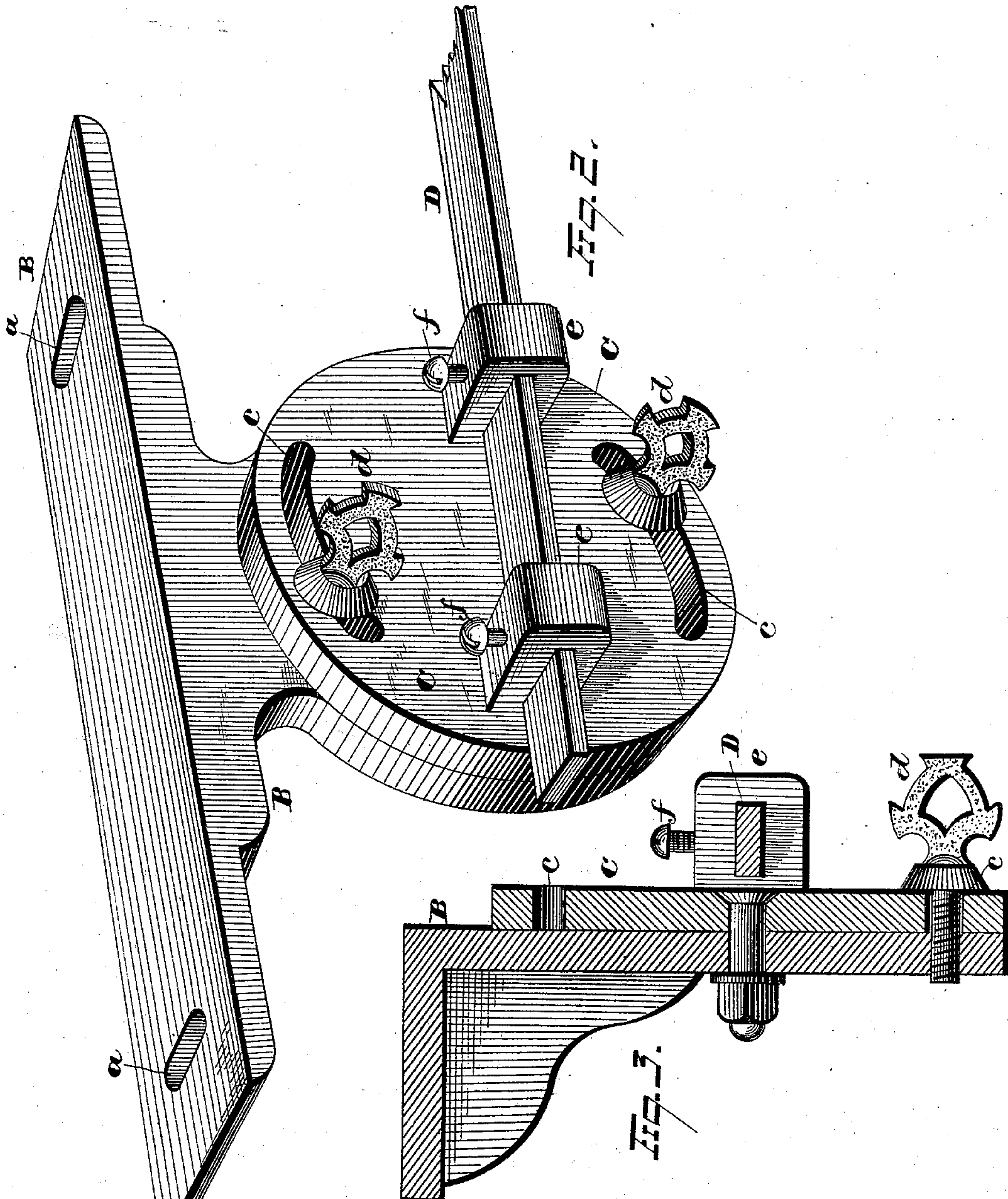
INVENTOR

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John Russell.
By H. A. Symons.
ATTORNEY

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UNITED STATES PATENT OFFICE.

JOHN RUSSELL, OF PLATTSBURG, MISSOURI, ASSIGNOR TO HIMSELF AND
GEORGE P. FUNKHOUSER, OF SAME PLACE.

PITMAN-CONNECTION.

SPECIFICATION forming part of Letters Patent No. 223,817, dated January 27, 1880.

Application filed November 24, 1879.

To all whom it may concern:

Be it known that I, JOHN RUSSELL, of Plattsburg, in the county of Clinton and State of Missouri, have invented certain new and
5 useful Improvements in Pitman-Connections; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use
10 it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to certain improvements in pitman-connections. It is especially
15 intended for use with machines which are suspended by or supported upon springs and have reciprocating horizontal movement as they are actuated by crank or eccentric and pitman.

20 Its object is to provide means whereby the pitman may maintain proper connection with such a machine while the latter works at different horizontal inclinations, and also adjust the tension of the supporting or suspending
25 springs.

My invention consists in certain details in construction and combinations of parts, as will hereinafter be described, and pointed out in the claims.

30 Referring to the drawings, Figure 1 is a view, in side elevation, representing the invention applied as in use. Fig. 2 is a perspective view of the invention detached from any machine. Fig. 3 is a vertical transverse
35 section of the preceding figure.

The machine to which this invention is applicable may be of any suitable construction, and adapted for any desired purpose, the form of connecting machine shown in the drawings
40 being merely for illustration.

Secured to the bottom of a swinging frame, A, is a hanger, B, whose horizontal upper portion is provided with transverse slots *a*. Bolts *b* fit in said slots, and thereby permit
45 the hanger to be laterally adjusted on the bottom of the swinging frame. In this way the pitman may be maintained in true line with its connecting-wrist on the actuating rotary shaft.

A face-plate, C, is secured to the depending
50 portion of the hanger in vertical rotary adjustment, one or more circular slots, *c*, being formed in the face-plate, in which fit corresponding screw-clamps *d*. The screw-threaded
55 extremities of these clamps engage with the hanger and maintain the face-plate in desired rotary adjustment thereon; hence the swinging frame may be vertically adjusted on its
60 springs to work at different horizontal inclinations, and the pitman's throw be undisturbed.

Grooved lugs *e* project from the face-plate and are provided with set-screws *f*. The pitman D is thereby adapted to have its working length adjusted by being moved in said
65 grooved lugs into desired position, and then clamped therein. This adjusts the tension of the springs on which the swinging frame is suspended or supported.

Different changes and mechanical modifications may be made in the construction shown,
70 and it is not considered necessary to specify them, as the following claims are drawn to broadly cover the principle of my invention.

Having fully described my invention, what I
75 claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a swinging or reciprocating frame upheld or supported by
80 suitable springs, and having a hanger attached thereto, of a rotary adjustable face-plate provided with means for its adjustable attachment to a pitman, substantially as set forth.

2. The combination, with a swinging or reciprocating frame and a hanger secured there-
85 to in a laterally-adjustable manner, of a rotary adjustable face-plate pivoted to the hanger, said face-plate provided with one or more perforated lugs and set-screws for se-
90 curing the face-plate to the pitman in any desired longitudinal adjustment, substantially as set forth.

3. The combination, with a swinging or reciprocating frame or receptacle upheld or
95 supported by suitable springs, and having a hanger attached thereto, of a pivoted face-plate provided with arc-shaped slots and set-

screws or clamps for securing said face-plate in any desired rotary adjustment, said face-plate also provided with perforated lugs and set-screws for securing the face-plate to the
5 pitman in any desired longitudinal adjustment, substantially as set forth.

In testimony that I claim the foregoing I

have hereunto set my hand this 12th day of November, 1879.

JOHN RUSSELL.

Witnesses:

D. H. LINDSAY,
GEO. R. RILEY.