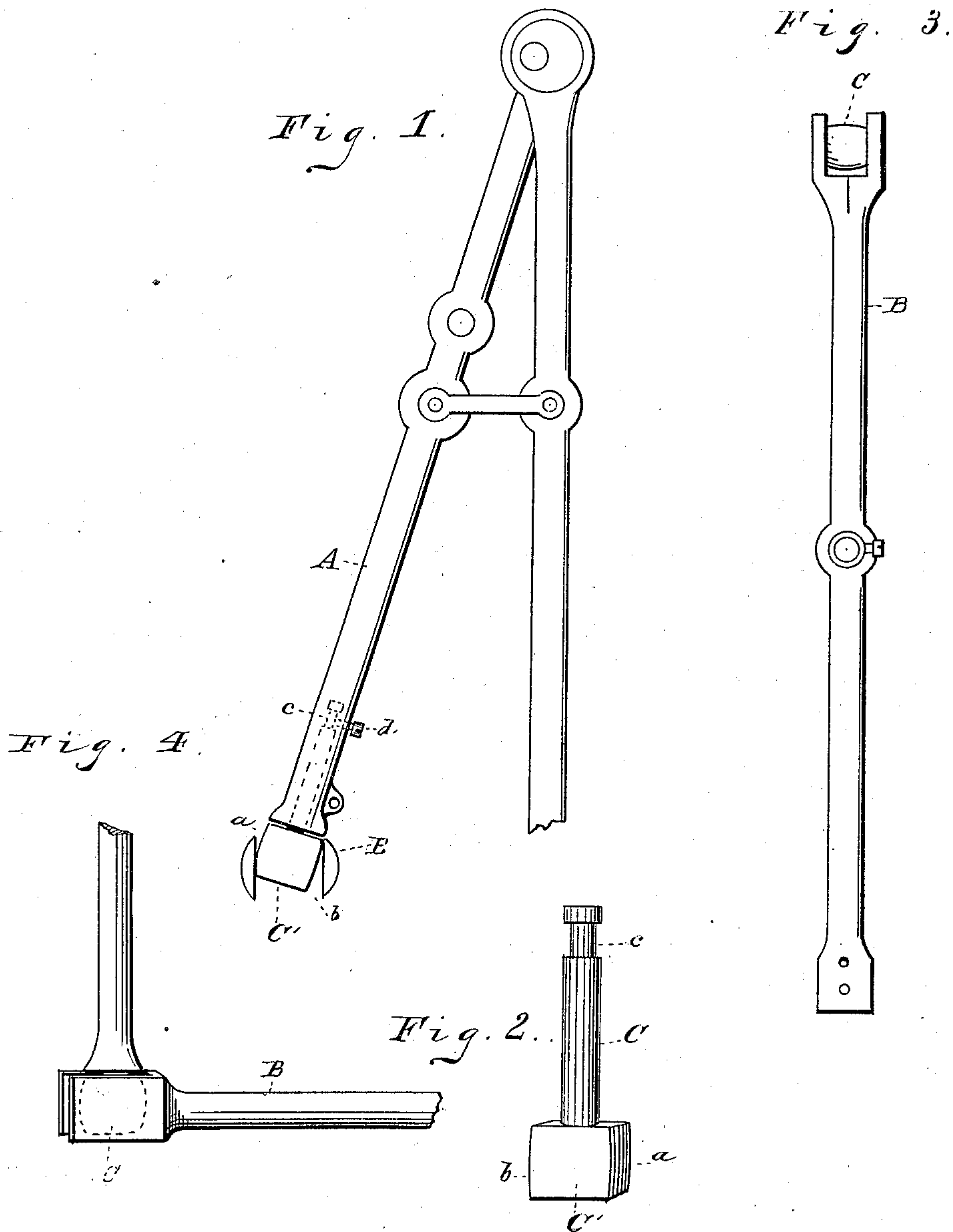


(No Model.)

R. W. WHITNEY.
MECHANICAL MOVEMENT.

No. 268,160.

Patented Nov. 28, 1882.



WITNESSES
Emma C. Wright
W. E. Donnelly

INVENTOR
Ruel W. Whitney
by Leggett & Leggett
ATTORNEYS

UNITED STATES PATENT OFFICE.

RUEL W. WHITNEY, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND
JOHN CROWELL, JR., OF GLENVILLE, OHIO.

MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 268,160, dated November 28, 1882.

Application filed March 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, RUEL W. WHITNEY, of New York, in the county of New York and State of New York, have invented certain new
5 and useful Improvements in Mechanical Move-
ments; 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 the same.

My invention relates to mechanical move-
ments; and it consists in the peculiar construc-
tion of the same, as will be hereinafter fully
set forth and claimed.

15 In the drawings, Figure 1 is a view in ele-
vation of my device as adapted and applied to
a sewing-machine. Fig. 2 is a detached view
of a part of my device, showing more clearly
one manner of constructing the same. Figs.
20 3 and 4 are detached views, illustrating the
connection of the oscillating pitman and hori-
zontal lever.

A is an oscillating pitman or lever, which
receives its motion from a crank or eccentric
25 imparting the same to a horizontal lever, B,
which is provided with a bifurcated end. The
lower end of the pitman or lever A is formed
hollow and preferably split. Into this hollow
end fits a spindle or end piece, C, which is
30 provided on its lower end with a head, C',
which is preferably made in the form of a cube
with its sides *a* and *b* curved. This spindle C
is secured in the pitman A in such a manner
as to allow it to slide vertically in the same
35 and also allow it to revolve on its axis. One
manner of securing it in the above-mentioned
manner is shown in the drawings, which con-
sists in providing the upper end of the spin-
dle C with an annular groove, *c*, and provid-
40 ing the pitman A with a set-screw, *d*, which

engages with said slot *c* and prevents the spin-
dle from falling out of the pitman, but allows
it to move vertically and revolve in said pit-
man, as hereinbefore mentioned. The curved
sides of the head C' are placed adjacent to the 45
inner faces of the bifurcated end of the hori-
zontal lever B. Thus arranged a universal
coupling is provided between the vertical and
horizontal levers A and B, as will be seen. A
flat surface is always presented to the bifur- 50
cated end in a horizontal direction.

I do not claim broadly the combination, with
a vertical oscillating lever, of a rocking or ver-
tically-moving bar and a horizontal lever, as
such a combination is shown in patents to 55
D'Arcy Porter, No. 248,214, of October 11,
1881, and No. 250,169, of November 29, 1881;
but my improvement, as hereinbefore described,
affords a simple device for imparting the re-
quired motion to the lever B without revolv- 60
ing the lever A.

I claim—

The combination, with a vertical oscillat-
ing lever formed hollow at its lower end, of a
spindle or end piece adapted to fit in the hol- 65
low end of said lever, and provided with an
annular groove, and a set-screw adapted to
enter the groove and retain the spindle in
place and allow a revolving movement thereof,
and a head to which is secured the bifurcated 70
end of a horizontal lever, substantially as set
forth.

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

RUEL W. WHITNEY.

Witnesses:

A. P. SMITH,
JOHN BRACKER.