

I. RINDGE.
Gun-Carriage

No. 43,228.

Patented June 21, 1864.

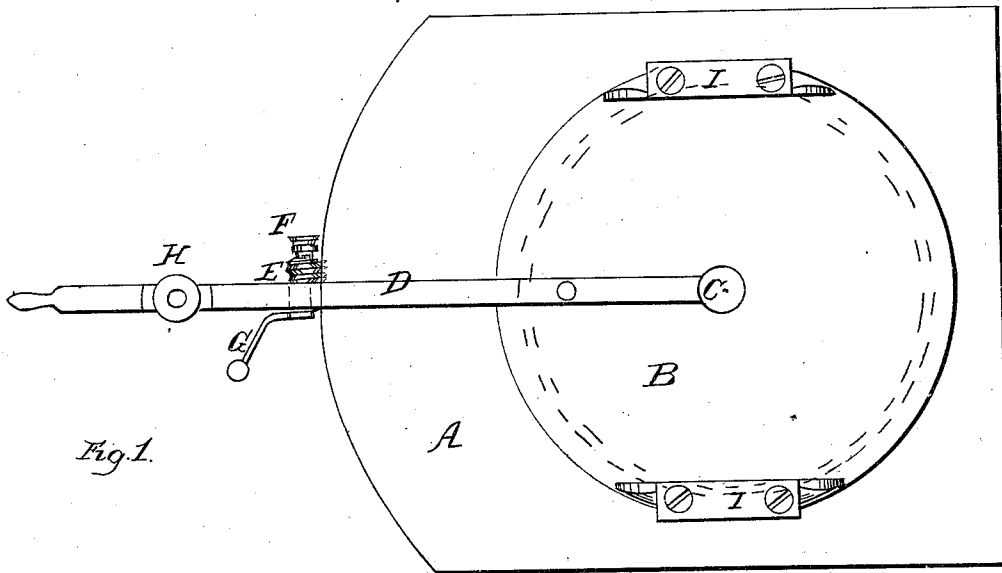


Fig. 1.

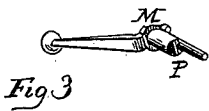


Fig. 3.

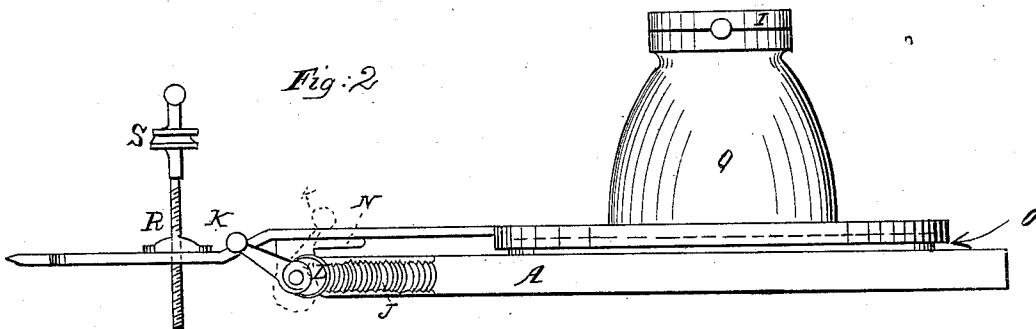


Fig. 2.

Witnesses.
J. H. Fitzpatrick
D.M.D.

Inventor.
Isaac Rindge

UNITED STATES PATENT OFFICE.

ISAAC RINDGE, OF CINCINNATI, OHIO.

IMPROVEMENT IN OPERATING GUN-CARRIAGES.

Specification forming part of Letters Patent No. 43,228, dated June 21, 1864.

To all whom it may concern:

Be it known that I, ISAAC RINDGE, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and improved plan of obtaining the lateral train motion for mounted fire-arms or ordnance pieces.

This invention relates to any kind of fire-arms or ordnance mounted and worked on a table by pivot or center for obtaining a lateral train motion. I hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a top view; Fig. 2, a side elevation, and Fig. 3 a perspective view.

Letter A in Fig. 1 represents a bed-plate made fast to the carriage or any other device for mounting guns. This plate has a raised circular rim, as represented in Figs. 1 and 2, letter O, having C as its center, and to which plate B is connected by a king-bolt or otherwise, and forms a turn-table.

Letter C represents the center or king bolt connecting A and B.

Letter D represents a lever firmly secured to plate B, and also connected to plate A and B by means of king-bolt C, passing through A, B, and D, and by which B is operated.

Letter E represents a taper-screw to fit the thread on the periphery of plate A, as represented in Fig. 2, letter J, and it is confined on an eccentric-shaft, as represented in Fig. 3, letter P, under the lever D, substantially as represented in Fig. 2, letter N, and can be thrown in or out of gear, as the case may require, by means of the lever G, so construct-

ed as to be thrown either way only to a given point, as represented in Fig. 3, letter M. This screw is intended, when thrown out, as represented in red lines in Fig. 2, letter K, to leave the gun free and susceptible of an instantaneous lateral train motion at right angles, if required, by means of lever D, turning carriage B, or by being thrown in gear, as represented in Fig. 2, letter L, holds the gun steady when fired or in transit, and by turning the wheel F, which is confined to the screw on the eccentric-shaft, will give a steady gradual lateral train motion either right or left, as desired, and while in operation, if necessary.

Fig. 2, letter Q represents that portion of the plate B in Fig. 1 which the gun rests upon with its trunnions, and letter I caps over the trunnions.

Letter R represents the elevating and depressing screw connected to the breech of the gun and the lever D by a ball-nut and cap; letter S, the wheel to operate the screw for depressing or elevating the gun.

When mounted and constructed substantially as above set forth, the gun can be elevated or depressed, and a lateral train motion can be given at the same time by the gunner with ease, if required.

Having thus described my invention, what I claim as my invention is—

The combination of the screw and eccentric-shaft connected to the lever and turn-table, for the purpose substantially as described.

ISAAC RINDGE.

Witnesses:

H. L. JONES,
ROBT. GOGGIN.