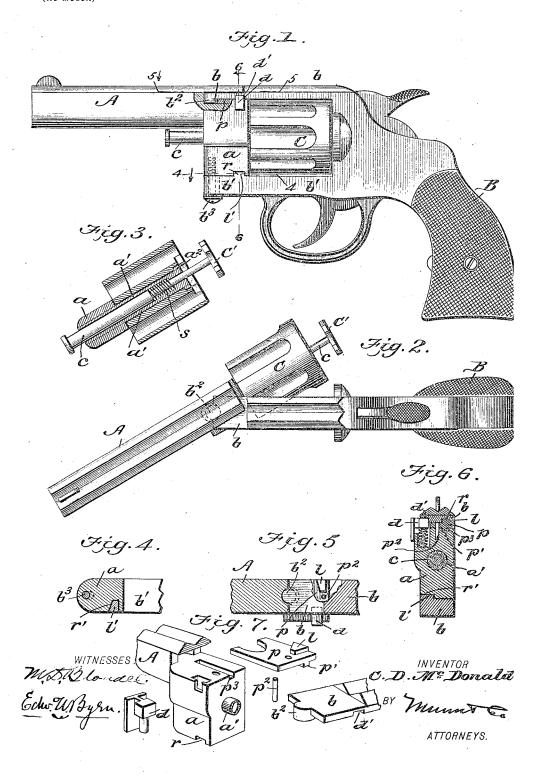
C. D. McDONALD. REVOLVER.

(No Model.)

(Application filed July 25, 1899.)



CHRISTOPHER D. McDONALD, OF VANCE, COLORADO.

REVOLVER.

SPECIFICATION forming part of Letters Patent No. 647,861, dated April 17, 1900. Application filed July 25, 1899. Serial No. 725,091. (No model.)

To all whom it may concern:

Be it known that I, CHRISTOPHER D. MC-DONALD, of Vance, in the county of San Miguel and State of Colorado, have invented a 5 new and useful Improvement in Revolvers, of which the following is a specification.

My invention is in the nature of an im-

provement in firearms of the class known as "revolvers;" and its object is to provide means to for breaking or opening the arm and ejecting the empty cartridge-shells from the cylinder, to the end that reloading may be accomplished. with the greatest facility and in the shortest space of time.

It consists in the peculiar construction and arrangement of the parts, as will be hereinafter shown and described, reference being had to the accompanying drawings, in which-

Figure 1 is a side view, partly in section. 20 Fig. 2 is a plan view with the revolver opened. Fig. 3 is a horizontal section through the cylinder, the parts being in the position of Fig. 2. Fig. 4 is a detail section on line 44 of Fig. 1, and Fig. 5 a similar view on the line 5 5, 25 showing the stop-lugs for stopping and tight-

ening the barrel in alinement with the cylinder. Fig. 6 is a cross-section on line 6 6 of Fig. 1, and Fig. 7 shows details in perspective of the parts of the break-joints.

In the drawings, A represents the barrel portion of the revolver, B the handle, and C the cylinder, in which are formed the cartridge-chambers.

The barrrel portion A is made with a thick-35 ened abutment a, from the rear of which projects the rigidly-attached sleeve a', which swivels in the center of and forms the axis of revolution for the cylinder C, which latter is prevented from coming off by an enlarged 40 head a^2 . Centrally through the abutment aof the barrel and the sleeve a' there extends a sliding stem c, which has a knob or enlargement on its forward end and at its rear end is rigidly attached to the scalloped ejector-45 head C', which lies within a recess at the rear

of the cylinder, with its scallops completing the periphery of the chambers and underlying the flanges of the cartridge-shells, as is common. This stem is pressed forwardly by

on the stem, so as to hold the ejector down in its recess; but when said stem is pressed to the rear the ejector is thrown out, carrying the cartridge-shells with it, as shown in

The barrel and its abutment a, carrying. the cylinder, are hinged to forwardly-extending branches $b\ b'$ of the handle portion about a vertical axis formed by knuckle-joint ba at top and pivot-screw bo at the bottom, the two 60 being arranged in vertical alinement.

To lock the barrel in alinement with the branches b b' of the handle, a spring-seated locking-bolt d is arranged in a recess in the abutment a and is adapted to enter a recess 65 d' in the upper branch b of the handle.

To stop the barrel in alinement with the branches b b' of the handle, cam-lugs are arranged at the joint at top and bottom. One of these cam-lugs l' is formed on the upper 70 surface of the lower branch b' of the handle and enters a recess r' in the lower side of the abutment a, and the other lug l is formed on the upper surface of a plate p on the top of the abutment and enters a recess r in the 75 lower surface of the upper branch of the handle on the opposite side of the revolver. These lugs $l\ l'$ have cam-faces, as seen in Figs. 4 and 5, which cause the barrel and cylinder, on the one hand, and the handle and its 80 branches, on the other, to be drawn tightly to-ward each other when the joint is closed and the barrel and handle are in alinement.

To inclose the knuckle-joint b2 at the top and permit the parts to be put together, the 85 plate p is provided. This has a longitudinal ${f r}{f i}{f b}\,p'$ on its lower side, that slides into a groove p^3 in the top abutment a, and a pin p^3 locks the plate in place. This plate engages with a boss formed on the lower side of the for- 90 ward end of the handle branch b and forms the upper joint about which the barrel is articulated.

With this construction of revolver the barrel may be grasped in the left hand, the lock- 95 ing-bolt d pressed down with the thumb, and the barrel being deflected with the cylinder the forefinger of the same hand may be pressed against the spring-seated stem of the 50 a helical spring s, bearing against a shoulder | ejector to discharge the shells in a most rapid. 100 convenient, and effective manner, the right | hand being employed to fill the cylinder with fresh cartridges.

Having thus described my invention, what 5 I claim as new, and desire to secure by Letters

Patent, is-

1. A revolver consisting of a handle portion having a rigidly-attached upper and lower extension inclosing the cylinder-space, and a 10 barrel hinged on a vertical axis between the forward ends of said rigid extensions and bearing a revolving cylinder substantially as and for the purpose described.

2. The combination in a revolver, of a han-15 dle portion having an upper and lower extersion, a barrel hinged between the forward ends of the same to swing sidewise and carrying the cylinder, and a spring-seated locking-bolt for locking the barrel and handle in

20 alinement as described.

3. The combination in a revolver, of a handle portion having an upper and lower extension, a barrel hinged between the forward ends of the same to swing sidewise and car-25 rying the cylinder, a spring-seated lockingbolt for locking the barrel and handle in alinement, and cam-lugs for drawing the parts together when in closed position.

4. The combination in a revolver, of a handle portion having an upper and lower exten- 30 sion, and a barrel hinged between the forward ends of the same to swing sidewise, its upper hinge-joint being in the form of a knuckle having a detachable retaining-plate p substantially as and for the purpose described.

5. A revolver having rigid handle extensions both above and below the cylinder, and a barrel jointed to the forward ends of the same, said barrel having on one side of its rear end a lateral projection with a recess in 40 the same, and a locking-bolt playing in said recess, and locking against the edge of the upper forward extension from the handle, and a spring arranged beneath said lockingbolt in said recess, substantially as described. 45

CHRISTOPHER D. McDONALD.

Witnesses:

WINFIELD S. CARHART, CHAS. ELLIOTT.