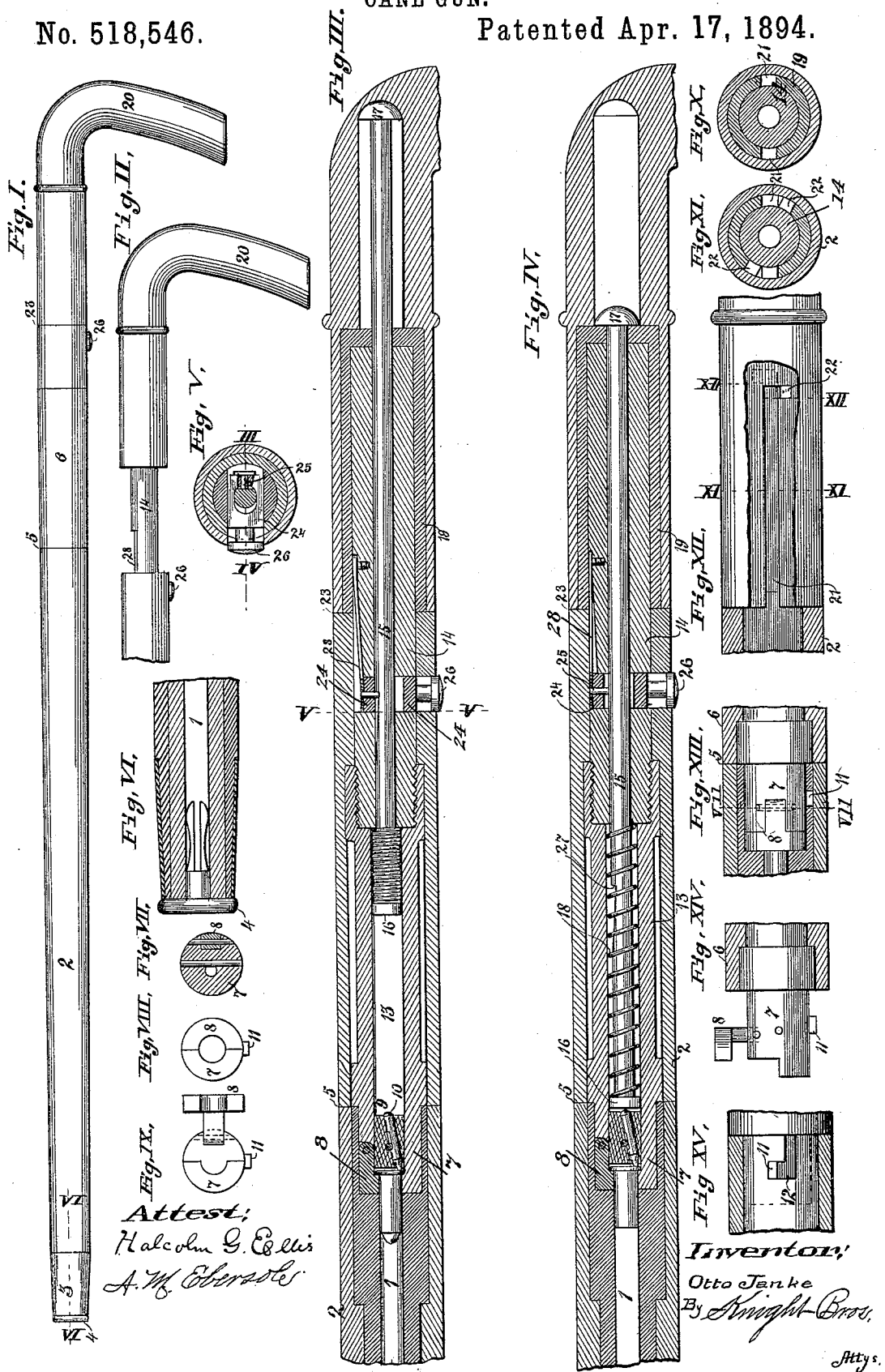


O. JANKE.
CANE GUN.

Patented Apr. 17, 1894.

No. 518,546.



THE NATIONAL LITHOGRAPHING COMPANY.
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

OTTO JANKE, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-THIRD TO JOHN L. NELLE, OF SAME PLACE.

CANE-GUN.

SPECIFICATION forming part of Letters Patent No. 518,546, dated April 17, 1894.

Application filed December 18, 1893. Serial No. 493,952. (No model.)

To all whom it may concern:

Be it known that I, OTTO JANKE, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Cane-Rifles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a fire-arm in the form of a walking stick or cane and adapted for use as such, in addition to being adapted for convenient and ready use as a fire arm, and my invention consists in features of novelty hereinafter fully described and pointed out in the claims.

Referring to the drawings:—Figure I shows a side elevation of the entire cane rifle. Fig. II is a similar view of the handle end of the rifle, showing the position of the parts when cocking the rifle. Fig. III is a longitudinal section through the lock and cartridge chamber of the barrel, and shows the rifle cocked. Fig. IV is a similar section to Fig. III, showing the position of the parts immediately after firing. Fig. V is a transverse section on the line V—V, of Fig. III. Fig. VI shows a section, on line VI—VI, of Fig. I, of the end of the barrel, with the spring clip plug in position to protect the end of the barrel. Fig. VII is a section through the cartridge holder, taken on line VII—VII of Fig. XIII. Fig. VIII is a front view of the cartridge holder closed; and Fig. IX is a front view of the cartridge holder open. Fig. X is a transverse section through the lock, on line XII—XII, of Fig. XII. Fig. XI is a transverse section on line XI—XI, of Fig. XII. Fig. XII is a view showing the slip joint and key of the cocking mechanism for the rifle. Fig. XIII is a horizontal section through the chamber of the rifle, and shows a top view of the cartridge holder closed. Fig. XIV is a side view of the cartridge holder open. Fig. XV is a section of the barrel extending back of the cartridge chamber, and shows the slot into which the key on the cartridge holder locks.

1 is the rifle barrel of any suitable caliber, and of such length that, with the balance of the parts, the cane is of the customary length. This barrel is covered by a veneering 2, also of any suitable material. At the lower end

of the barrel there is a ferrule 3 placed, and to protect the end of the barrel, a spring-clip plug, 4, shown clearly in Fig. VI, is inserted in the end of the barrel. When it is desired to fire the rifle, this plug is removed by simply pulling it out. At the back end of the barrel there is a joint 5, which comes between the cartridge chamber and the lock section of the rifle. A reduced portion 7 on this lock section fits into an enlargement of the cartridge chamber in the barrel section, and forms the cartridge holder. It is constructed in the form of a hollow cylinder having a small groove reamed out in it a short distance from the end into which the rim of the cartridge fits. Half of the cylinder in front of this groove is hinged, so that it can be swung back from the other half, as is more clearly shown in Figs. IX and XIV. Just back of this groove is the breech block 9, containing a sliding firing pin 10. On one side of this cartridge holder, there is a small key 11, which fits into a bayonet slot 12 in the extension of the rifle barrel, and when the parts are brought together, the lock section is given a slight turn to the right, and the parts will be firmly held together.

To load the rifle, the two sections are grasped in the hand, the lock section turned a little to the left, and the parts drawn apart. The hinged lip of the cartridge holder is then raised, as shown in Fig. XIV, and a cartridge placed in the lower half of the holder; the hinged lip is then closed down; the parts are then brought together; the key 11 being slid into the slot 12, a short turn to the right then locks the two parts of the rifle together, and it is ready to be cocked and fired.

The tube 13 which forms the cartridge holder extends a distance to the rear of the breech block, and into the rear end of this tube there is screwed a tube 14, which is of smaller bore. Through the bore of these two tubes there extends a plunger 15, having a head 16 in the tube 13, and a head 17 back of the tube 14. Around the plunger and within the tube 13 is a coiled spring 18. The tube 14 being of just sufficient bore to permit the plunger to pass through it, the spring is confined between the end of the tube 14 and the plunger head 16. To cock the rifle, it is necessary that the plunger 15 should be drawn

as far back as the spiral spring 18 will permit, as shown in Fig. III. This is accomplished in the following manner. Around the tube 14 is placed a sliding ferrule 19, having a closed head at the upper end, through which the plunger 15 extends, and back of which is the plunger head 17. This ferrule is secured within the handle of the cane. In the sides of this ferrule there are two bayonet slots 21, and on the tube 14 there are two corresponding keys 22, which slide in the slots 21. These slots have at their upper ends a small turn to the left, as is clearly shown in Fig. XII. To cock the rifle, the handle is given a short turn to the left, and grasping the cane at either side of the joint 23, the handle is pulled backward, the ferrule 19, moving with the handle, draws the plunger by the head 17 back to the position shown in Fig. III. Fig. II shows the position of the cane when the handle is so drawn back. The trigger catches the plunger in this position, and holds it, and the handle of the cane is shoved down to its normal position, given a turn to the right, which locks it, and holds the entire cane firmly together. The trigger or releasing mechanism consists in a small block 24, which slides in an opening made transversely through the tube 14. This block has a hole through the center of it, through which the plunger 15 passes, and on the upper side of the block there is a small pin 25, which projects into the hole in the said block. From the lower side of the block there extends a push button 26, extending through the covering or veneer on the outside of the cane. There is also a notch 27 in the plunger 15. This notch is so placed that when the plunger is drawn back to compress the spring 18, it will be immediately opposite the pin 25 of the trigger block. This pin drops into the notch 27 by the force of a flat spring 28 secured to the tube 14, and pressing on the back of the sliding block 24.

The rifle is now loaded and cocked. To fire, it is necessary to first remove the spring clip plug 4, then press the push button 26 until the catch pin 25 releases the plunger, which is impelled forward by the spring 18, and the plunger head 16 drives the firing pin into the cartridge, which explodes.

I claim as my invention—

1. The combination in a cane rifle, of a rifle barrel, separable from the section containing the breech block, and the cartridge holder formed on the breech-block section with the hinged lip arranged to close around the cartridge; substantially as described.

2. The combination, in a rifle cane, of the barrel-section separable from the breech-block-section, the plunger 15, the tubes 13 and 14, in which the plunger operates, the lower end of the tube 13 being closed by the breech block 9, containing the firing pin 10, and said tube 13, forward of the breech block 9, being chambered out to receive the cartridge and provided with the hinged lip 8, which closes over the cartridge and forms with the part 7, an extractor for the shell; substantially as described.

3. The combination, in a rifle cane, of a barrel-section, a breech-block and lock section separable from the barrel section, and secured thereto by a bayonet catch, the plunger 15, having the sear catch 27, the sliding ferrule 19 for drawing back said plunger 15, the transversely sliding trigger block 24, through which the plunger 15 passes, provided with the catch-pin 25, and push button 27, and operated by the flat spring 28, and the cartridge holder made with the hinged lip 8 for inclosing the shell; all substantially as described.

OTTO JANKE.

In presence of—

A. M. EBERSOLE,
CLARA G. EDWARDS.