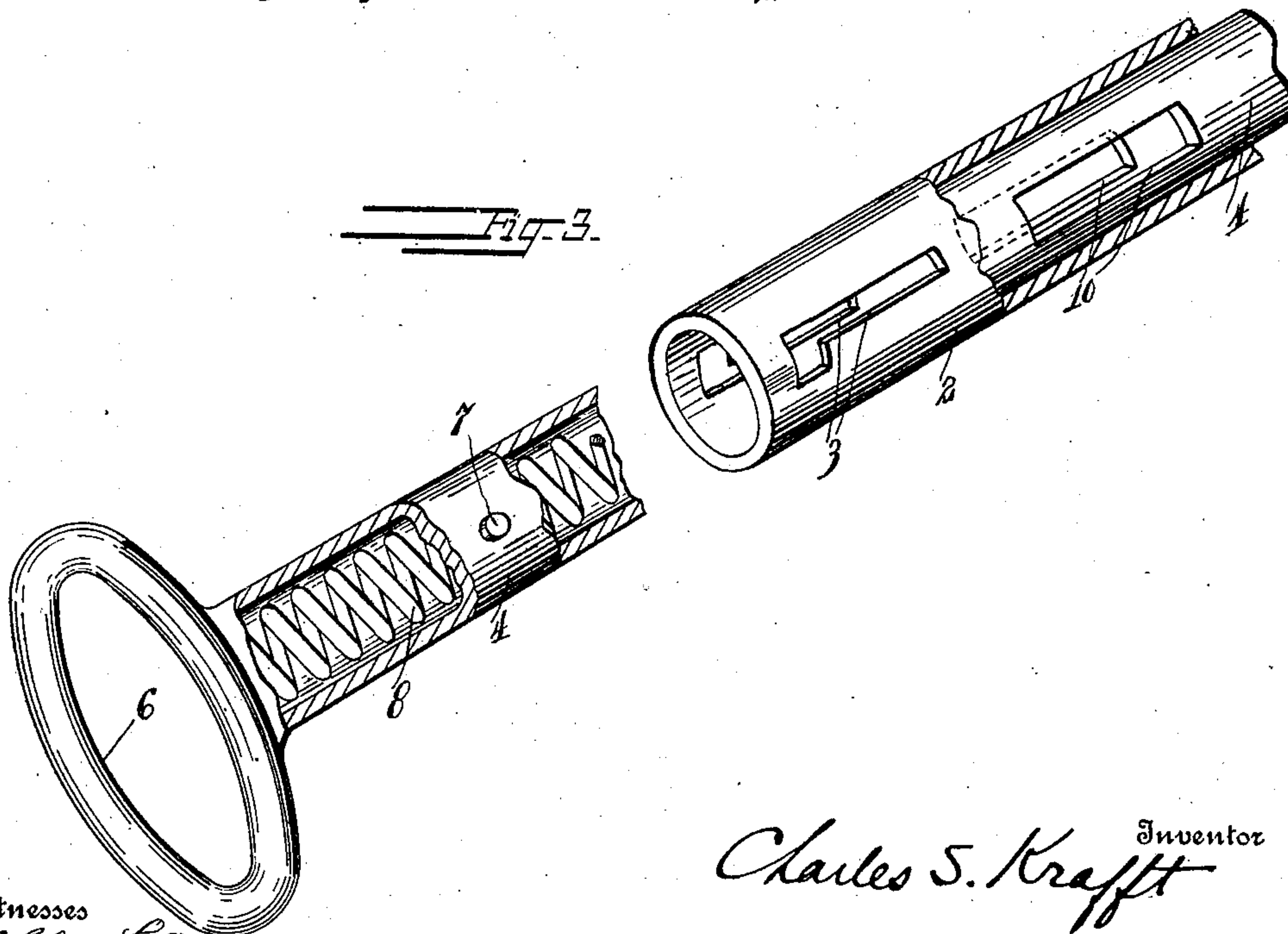
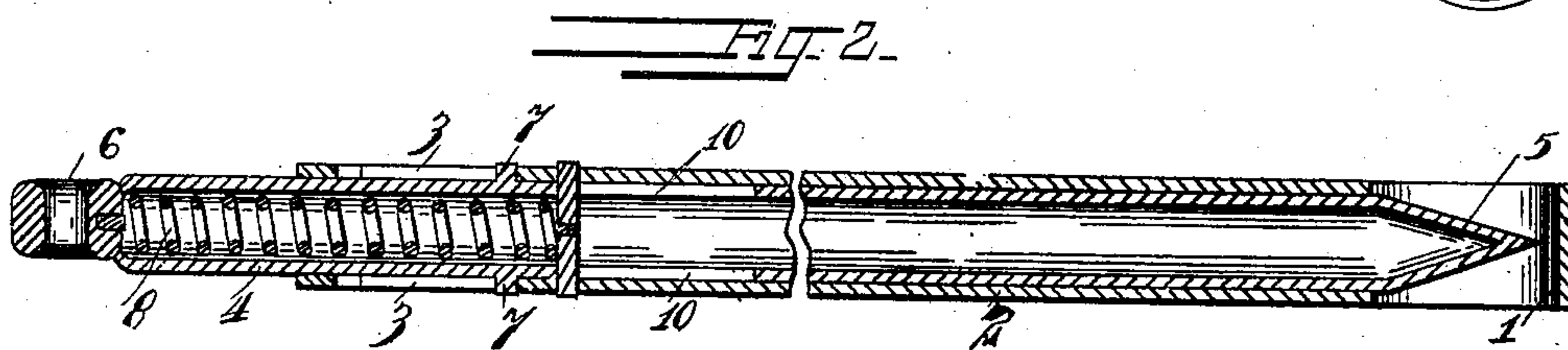
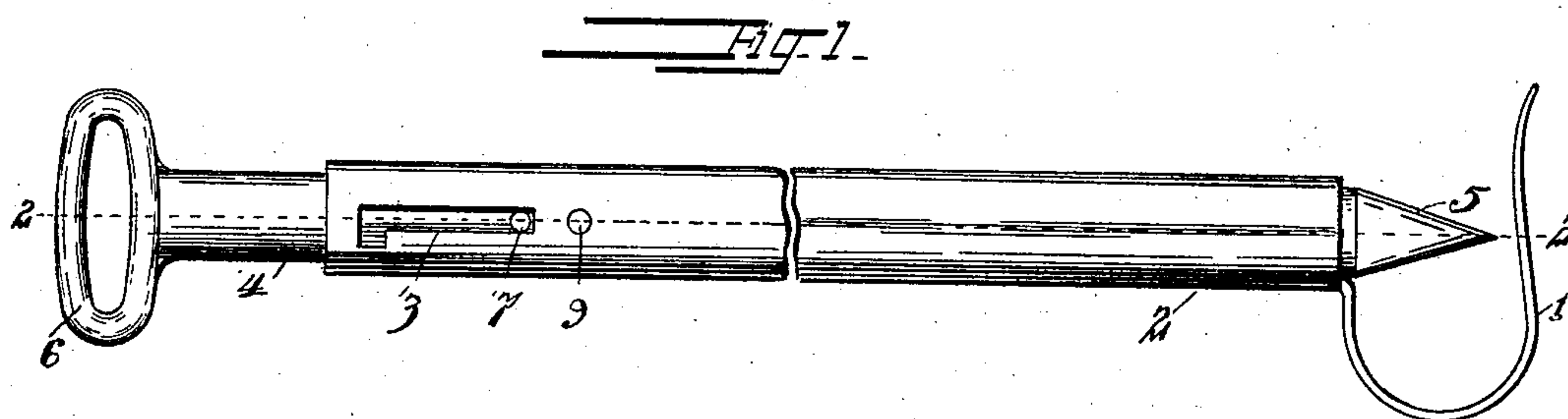


No. 845,180.

PATENTED FEB. 26, 1907.

C. S. KRAFT.  
COMBINATION POKER AND CLINKER HOOK.  
APPLICATION FILED APR. 10, 1906.



Witnesses

Edgar H. Murray

Geo. H. Hamilton

Charles S. Kraft Inventor

By

Frank C. Gore  
his Attorney



# UNITED STATES PATENT OFFICE.

CHARLES S. KRAFFT, OF EVANSVILLE, INDIANA.

## COMBINATION POKER AND CLINKER-HOOK.

No. 845,180.

Specification of Letters Patent.

Patented Feb. 26, 1907.

Application filed April 10, 1906. Serial No. 310,955.

*To all whom it may concern:*

Be it known that I, CHARLES S. KRAFFT, a citizen of the United States, residing at Evansville, county of Vanderburg, and State of Indiana, have invented certain new and useful Improvements in Combination Pokers and Clinker-Hooks, of which the following is a specification.

This invention relates to combination 10  
pokers and clinker-hooks.

The object of my invention is the provision of an improved device of simple and inexpensive, as well as durable, construction which will be adapted for the rapid and easy removal of clinkers from stoves or furnaces and for use as a poker.

Another object of the invention is the provision in a device of the class described of an improved and novel association of a clinker-hook and gripper slidable one within the other and a connection for locking them in a certain predetermined relation, together with a spring for causing relative movement of the clinker-hook and gripper.

25 The details of the invention are set forth hereinafter, and the novel features are recited in the appended claims.

30 In the accompanying drawings, Figure 1 is a side view; Fig. 2, a horizontal section on line 2 2 of Fig. 1; and Fig. 3, an enlarged detail view of the improved locking connection between the gripper and the clinker-hook, also showing the spring.

35 The clinker-hook 1 is of metal and of such form that it can yield to accommodate the clinker even if a little too large to be properly received therein. This clinker-hook is rigidly connected to a tubular shank 2, which is provided with bayonet-joint slots 3 on opposite sides thereof at the opposite end thereof from the clinker-hook 1.

40 The gripper 4 is tubular and slides within the shank 2, said gripper 4 being provided with a tip or point 5, adapted to be projected into the clinker-hook 1. Any suitable handle 6 is provided on the opposite end of the gripper 4. On opposite sides of the gripper 4 are headed knobs or pins 7, which are received in the bayonet-joint slots 3. Located within 50 the gripper 4 and connected to the handle end 6 thereof is a contractile coil-spring 8, the other end of which is secured to a cross-pin 9, fastened to the shank 2 and extending transversely thereof, suitable slots 10 being 55 provided in the gripper 4 to receive the cross-

pin 9 and permit the gripper 4 to slide within the shank 2.

When it is desired to remove a clinker from a stove or furnace fire-box, the shank 2 is grasped in one hand and the handle 6 in the other, and the gripper is drawn outwardly against the action of spring 8 and given a twist to turn the knobs or pins 7 into the transverse parts of the bayonet-joint slots 3, whereupon the gripper is held in retracted position. The device is then manipulated to cause the clinker to pass into the clinker-hook 1, and when it is suitably received therein the handle 6 is given a reverse twist to bring the pins or knobs 7 into the long parts of the bayonet-joint slots 3, whereupon the spring 8 draws the gripper 4 into the shank 2 and causes the tip 5 to be projected into the clinker-hook 1 and against the clinker, thereby securing the clinker in the hook 1, and the operator can then easily remove the clinker from the fire-box.

The entire device may be used as a poker as well as a clinker-hook, the gripper 4 (when projected as shown in Fig. 1) forming an abutment for any slight springing of the hook 1 when poking about in the fire.

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

1. In a combination poker and clinker-hook, the combination with a tubular shank and a clinker-hook secured thereto, of a gripper slidable inside the tubular shank aforesaid and having an end adapted to be projected into the clinker-hook, and a spring cooperating with the gripper and shank aforesaid which tends to draw the gripper into the shank and to project the end of the gripper into the clinker-hook.

2. In a combination poker and clinker-hook, the combination with a tubular shank and a clinker-hook secured thereto, of a gripper slidable inside the tubular shank aforesaid and having an end adapted to be projected into the clinker-hook, a spring cooperating with the gripper and shank aforesaid which tends to draw the gripper into the shank and to project the end of the gripper into the clinker-hook, and means adapted for locking the gripper and shank together with the gripper in withdrawn or retracted position.

3. In a combination poker and clinker-hook, the combination with a tubular shank



and a clinker-hook secured thereto, of a gripper slidable inside the tubular shank aforesaid and having an end adapted to be projected into the clinker-hook, a spring cooperating with the gripper and shank aforesaid which tends to draw the gripper into the shank and to project the end of the gripper into the clinker-hook, and means adapted for locking the gripper and shank together with the gripper in withdrawn or retracted position comprising a bayonet-point between said gripper and shank.

4. In a combination poker and clinker-hook, the combination with a tubular shank and a clinker-hook secured thereto, said tubular shank having bayonet-joint slots and a

cross-pin, of a gripper slidable within the tubular shank and having an end adapted to be projected into the clinker-hook, said gripper being provided with pins or members which are received in the bayonet-joint slots, and a contractile spring secured to the gripper and to the cross-pin aforesaid and tending to project the tip of the gripper into the clinker-hook.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CHARLES S. KRAFFT.

Witnesses:

F. C. GORE,

H. J. PRELUNPAUGH.