This invention relates to shot guns, and has particular reference to means constituting an automatic choke for constricting the discharge end of the gun barrel.

When in the field or firing at a close target, the barrel of a shot gun should be opened or unchoked to give a large pattern and to prevent blowing the target to pieces. When in the field and the game normally moving away from the shooter is missed by the first shot, the automatic choke operated by the recoil of the first shot will give distance and killing power to the second shot on the game which has naturally moved farther away. It has been found in practice that it is not practicable to adjust a choke by hand. Sighting is interrupted. The game is permitted to move farther away while this adjustment is being made by hand, and various other objections to hand-adjustable choke means have been found.

The object of the present invention is to provide automatic choke means for constricting the discharge end of the gun barrel to give distance and greater concentration of the charge.

A further object of the invention is to provide in an automatic choke device, means for locking the operating parts in their open or constricted position.

A still further object of the invention is to provide such automatic choke means with mechanism for quickly attaching or removing the same from the gun barrel.

According to the invention, the automatic choke means, which may be applied either to the end of the gun barrel per se or to the end of the gun barrel in the form of an attachment, has a barrel provided with a series of longitudinal slots at the discharge end thereof, a portion at the discharge end enlarged above the normal outer diameter and tapering to the normal diameter, a sleeve having a sliding fit on the normal outer diameter of said barrel, and arranged upon the gun recoil to encompass said enlarged area to reduce the discharge diameter of said barrel. The sliding member may be provided with means for locking it in either position, and it may be provided with means for limiting its movement in either direction.

The drawing illustrates embodiments of the invention and the views therein are as follows:

Figure 1 is a side view showing the broken end of a gun barrel with the automatic choke in the form of an attachment added thereto.

Figure 2 is an end view of the same,
ected with the end of the gun barrel per se. This view shows the sleeve in a position to con-
strict the end of the gun barrel. In this in-
stance, all the parts as herein described in con-
nection with the extension placed on the gun
barrel will be found except the extension and
attending parts per se, and the end of the gun
barrel may be provided with the shoulder 18, ta-
pered part 19, and longitudinal slots 24, when
new guns are built to incorporate this invention.

This invention has been tested over a long
period of time, and has been found to give re-
markable results; the gun recoil, commonly
called the “kick” or “kick back,” pulling the bar-
rel to the rear, so that the sleeve slides up the
tapered portion 19 onto the shoulder 18 and
automatically provides a constricted barrel for
the second shot.

Of course, the automatic choke device for gun
barrels herein illustrated and described may be
modified in various ways without departing from
the invention herein set forth and hereafter
claimed.

The invention is hereby claimed as follows:

1. A gun barrel having a normally uniform
bore, an external tapered enlargement at the
discharge end of said barrel, said barrel having
slots extending inward from the discharge end
thereof, and a sleeve-like member constructed
and arranged to slide freely on said barrel and
to automatically ride onto said tapered en-
largement in response to the recoil of the gun
to thereby constrict the discharge end of said
bore.

2. A gun barrel having a normally uniform
bore, an external tapered enlargement at the
discharge end of said barrel, said barrel having
slots extending inward from the discharge end
thereof, a sleeve-like member constructed and
arranged to slide freely on said barrel and to
automatically ride onto said tapered enlarge-
ment in response to the recoil of the gun to
thereby constrict the discharge end of said
bore, and means for limiting the relative move-
ment of said member on said barrel.

3. A gun barrel having a normally uniform
bore, an external tapered enlargement at the
discharge end of said barrel, said barrel having
slots extending inward from the discharge end
thereof, a sleeve-like member constructed and
arranged to slide freely on said barrel and to
automatically ride onto said tapered enlarge-
ment in response to the recoil of the gun to
thereby constrict the discharge end of said bore,
and means for locking said member in either
position.

4. An automatic choke device for guns com-
prising a gun barrel having a normally uniform
bore and an external periphery uniform ex-
cept at the discharge end of said barrel which
is provided with a tapered enlargement, longi-
tudinal slots extending from the discharge end
of said barrel, and a member constructed and
arranged for free sliding on the uniform periph-
eary of said barrel and to automatically ride onto
said enlargement for embracing the enlarge-
ment to restrict the outer end of the bore in
response to the recoil of said gun.

5. An automatic choke device for guns com-
prising a gun barrel having a normally uniform
bore and an external periphery uniform except
at the discharge end of said barrel which is
provided with a tapered enlargement, a member
constructed and arranged for free sliding on the
uniform periphery of said barrel and to auto-
matically ride onto said enlargement for em-
bracing the enlargement to restrict the outer
end of the bore in response to the recoil of said
gun, and means for preventing the member from
leaving said barrel.

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