Chapter I-Continued

ism, especially the bolt head. Oil in the barrel causes erratic shooting.

Cleaning after Firing—After Wiping out the bore use boiling water whenever possible, pouring 2 or 3 quarts through the bore, using a proper funnel; thoroughly dry out and re-oil inside and out; wipe out the bore and re-oil it daily for three consecutive days after firing.

AMMUNITION.

Small Arms Ammunition, usually abbreviated to "S A. A.," is of two kinds, known as Mark VI. and Mark VII. They are distinguishable by the shape of the bullet, Mark VI having a blunt nose and Mark VII. a pointed nose.

The weight, size and composition of each is given below for comparison:—

Bullet	Mark VI.	Mark VII.
Shape	Blunt nose.	Pointed nose
Length and diameter	1.25 in., dia303, base .311.	1.28 in., dia303, base .311.
Weight	Bullet 215 grs. Cartridge 415 grs.	Bullet 174 grs. Cartridge 382 grs.
Composition	Solid lead core, with n'kel jacket	Alum. cap, lead
Charge	31 grs. of cordite in 60 strands.	38 grs. of cordite in 40 tubes.
Muzzle		
Velocity	2.100 ft. per sec.	2.500 ft. per sec.
Rotation or		ajooo zu por soor
Spin	2,500 revolutions per second.	3,000 revolutions per second.
Cartridge Case	Solid drawn brass	Solid drawn brass

The cap charge is the same for both, and is composed of Fulminate of Mercury, Flour of Sulphur and Meal Powder to form a paste

The cordite charge is composed of 58% nitroglycerine, 37% gun-cotton, and 5% glycerine, with a waxed cardboard wad to form a tight padding between the cordite and the bullet.

The base of the bullet is made .311 in diameter to fit the spiral grooves of the rifling, so that the bullet fits tightly into the bore and grooves of the rifle in its passage through the barrel.