

energizes a magnet causing a flux across the contacts. In case an arc is formed upon the cessation of the current it is urged across the field of the magnet in the same manner as an armature conductor is driven across the field, which

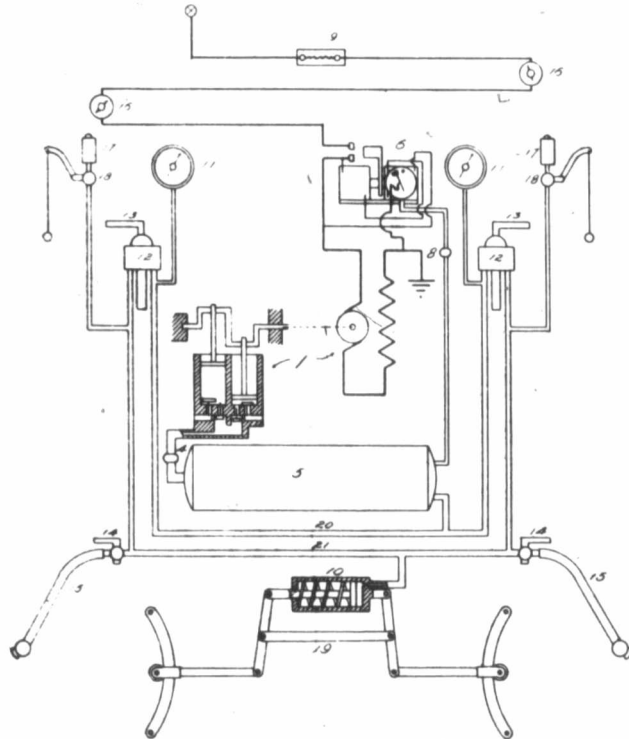


Plate 5.

is applied to it. By this means the arc is drawn out and broken instantly.

The coils 1 and 2 are wound in two halves each, one half in a right-handed, the other in a left-handed manner, the idea being to exert a central pull on the plunger; otherwise, it would strike the end of the coil a heavy blow. Each coil is wound with about 70,000 turns in all of No. 33 wire, B. & S.