

COMPRESSED GAS CARTRIDGE FOR MULTIPLE DISCHARGEUSE, ESPECIALLY IN RELATION TO SMALL ARMS

This invention relates to cartridges for storing and releasing compressed gas, e.g. compressed air, for use with small arms such as air guns
5 and air pistols, or other similar devices that require release of short bursts of pressurised gas when operated.

Various designs of such cartridges are known and in some cases they are intended for multiple discharge use before being replaced or recharged. For multiple discharge use, however, there can be a problem in ensuring that there
10 are not wide variations in the pressure of the gas discharged over a series of successive discharges from the same cartridge, i.e. in multi-shot use. An object of the present invention is accordingly to provide an improved form of cartridge especially suitable for multi-shot use.

According to the present invention a cartridge for storing and releasing
15 compressed gas incorporates therein a regulator valve between a high pressure gas storage chamber and a gas discharge chamber, the regulator valve being arranged to permit the flow of gas from the storage chamber into the discharge chamber but being operable in response to the resulting increase in gas pressure in the discharge chamber to shut off such flow when the pressure in the
20 discharge chamber reaches a predetermined value, whereby the gas discharged from the cartridge in successive discharges is maintained at a substantially