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ABSTRACT
FIRING RATE REGULATING MECHANISM



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A firing rate regulating mechanism including a firing rate cylinder having at least one wall and a cylinder bore, a piston mounted for axial movement relative to the firing rate cylinder and substantially sealingly engaging the cylinder bore, the piston moving from a first position to a second position as a result of a firing, and moving from the second position to the first position to enable a further firing; the at least one wall having an air passage therethrough and being operatively connected to an air flow rate control means such that upon the piston moving axially from the first position to the second position it acts to force air in the firing rate cylinder through the air passage, the air flow rate control means being able to be adjusted to vary the air flow rate through the air passage and thus the rate of movement of the piston. The air flow rate control means includes an end block mounted to an end wall of the cylinder and an air bleed rate cylinder mounted in the end block for varying an opening of the air passage.

Figure 1