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(54) Title: FIREARM HAVING A DIRECT GAS IMPINGEMENT OPERATING SYSTEM

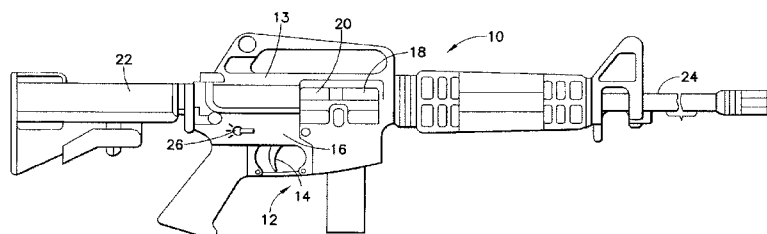


FIG. 1

(57) Abstract: A direct gas impingement operating system for an automatic or semi-automatic rifle. The direct gas impingement operating system has a gas block fitted to a barrel having a bore, the gas block in communication with the bore. A gas sleeve is located in the gas block, the gas sleeve in communication with the bore through the gas block. A bolt assembly having an impingement cylinder and a gas line is fitted to the sleeve in communication with the bore through the sleeve and the gas block, the gas line further in fluid communication with the impingement cylinder. Gas discharged from a fired cartridge displaces the impingement cylinder displacing the bolt assembly. The sleeve and the gas line are removable from the gas block without removal of the gas block from the firearm.

