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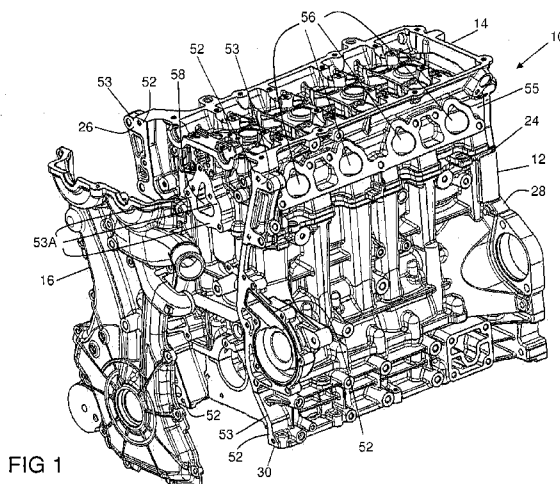


FIG 1

(57) Abstract: An engine (10) including a block (12), a coolant pump (22) and a timing cover (16), the coolant pump being mounted on the block, the timing cover having an inlet duct (62), an outlet duct (64) and a bypass duct (66), the inlet duct being in fluid communication with the outlet duct and the bypass duct, the inlet duct, outlet duct and bypass duct being integrally formed with the timing cover.