Claims

1. 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, an outlet duct and a bypass duct, the inlet duct being in fluid communication with the outlet duct and the by the bypass duct, wherein the inlet duct, outlet duct and bypass duct being integrally formed with the timing cover wherein the outlet duct and/or the bypass product is orientated laterally relative to a cylinder head having a gas inlet side and an exhaust side wherein the said outlet duct and/or said bypass ducts of the timing cover are orientated laterally on said gas inlet side.

2. An engine as defined in claim 1 wherein the inlet duct is a single inlet duct

3. An engine as defined in claim 2 wherein the single inlet duct faces as a cylinder head outlet.

4. An engine as defined in any preceding claim wherein the outlet duct is a single outlet duct and/or the bypass duct is a single bypass duct.

5. An engine as defined in any preceding claim wherein the timing cover is integrally cast with the inlet duct and outlet duct and bypass duct.

6. An engine as defined in any preceding claim wherein the outlet duct is positioned above the bypass duct.

7. An engine as defined in any preceding claim wherein the outlet duct and/or the bypass duct is/are positioned above the coolant pump.

~~8. An engine as defined in any preceding claim wherein the outlet duct and/or the bypass duct is orientated laterally relative to a cylinder head.~~

~~9. An engine as defined in claim 8 in which the cylinder head has a gas inlet side and an exhaust side and said outlet duct and/or said bypass duct are orientated laterally on said gas inlet side.~~

~~10.~~8. An engine as defined in any preceding claim wherein the engine block includes a lug projecting laterally from the block, the lug defining a pump inlet on a first side and at least a part of impeller housing on a second side, the lug including a hole to allow coolant to flow from the pump inlet through the hole to said part of said impeller housing.

~~11.~~9. An engine as defined in claim ~~10~~8 in which the lug at least partially defines a pump outlet.

~~12.~~10. An engine as defined in claim ~~11~~9 in which said part of said impeller housing includes a generally cylindrical portion and said pump outlet is orientated tangentially relative to said generally cylindrical portion.

~~13.~~11. An engine as defined in any one of claims ~~10 to 12~~8 to 10 including a cylinder head surface defining a top of the block, said part of said impeller housing being below the cylinder head surface.

~~14.~~12. An engine as defined in claim ~~13~~11 in which said part of said impeller housing is below said pump outlet.

~~15.~~13. An engine as defined in any one of claims ~~10 to 14~~8 to 12, the lug including a pump surface against which a pump fits, the timing cover surface and the pump surface being coplanar.

~~16.~~14. An engine as defined in any one claims ~~12 to 15~~10 to 13 when dependent on claim ~~11~~9 wherein a portion of the pump surface forms a bridge across a portion of the pump outlet.

~~17.~~15. An engine as defined in any preceding claim in which the coolant pump includes a pump body and an impeller rotatable mounted relative to the pump body.

~~18.~~16. An engine as defined in claim ~~17~~15 when dependent upon claim ~~12~~10 wherein the impeller is positioned in the generally cylindrical portion.

~~19.~~17. An engine as defined in claim ~~17 or 18~~15 or 16 when dependent upon claim ~~11~~9 wherein the pump body at least partially defines said pump outlet.

~~20.~~18. An engine as defined in claims ~~10 to 19~~8 to 17 including a thermostat mounted on said first side of said lug.

~~21.~~19. An engine block as defined in claim ~~20~~18 wherein said thermostat is mounted in a housing having a first housing inlet on an upstream side of the thermostat.

~~22.~~20. An engine block as defined in claim ~~21~~19 wherein the housing has a second housing inlet connected to said bypass duct.

~~23.~~21. An engine as defined in claim ~~22~~20 wherein the housing has a third housing inlet connected to cabin heater.

~~24. A method of assembling a first engine as defined in any preceding claim into a first vehicle and of assembling a second engine as defined in any preceding claim into a second vehicle,~~

~~the block of the first engine being identical to the block of the second engine and/or the coolant pump of the first engine being identical to the coolant pump of the second engine and/or the timing cover of the first engine being identical to the timing cover of the second engine,~~

~~the method comprising the steps of assembling the first engine into the first vehicle in a transverse orientation,~~

~~the method further comprising the step of assembling the second engine into said second vehicle in a longitudinal orientation.~~