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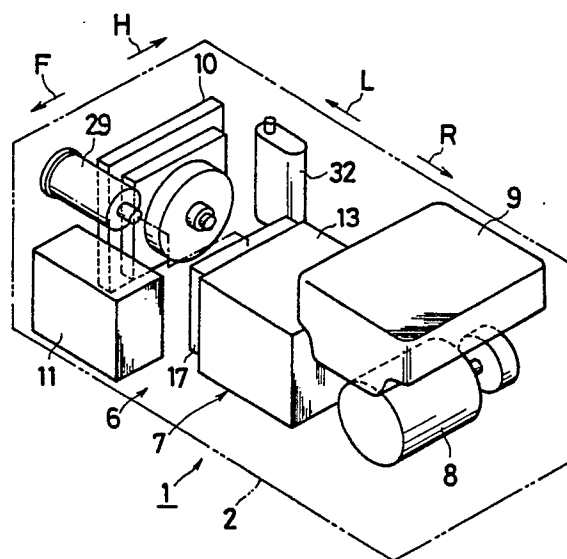
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54 **Forced-circulation type water-cooling system for horizontal internal-combustion engine.**

57 In a forced-circulation type water-cooling system for a horizontal internal-combustion engine, a radiator 10 is located roughly at the same height as an engine body 7 in a surrounding space outside a cylinder head 17 positioned at the lateral side of the engine body 7 of the horizontal internal-combustion engine 6. A cooling water inlet 56 for a water jacket 22 and a pump mounting seat 67 for a water pump 62 are provided at one of the front and back opposite sides of the cylinder head 17, which is the same side as a rotation shaft A such as a crankshaft 34 or a gear casing 21 projects from one of the front and back opposite sides of the engine body 7. The water pump 62 is mounted on the pump mounting seat 67 in such a state as its pump shaft 70 extending in the fore and back direction. A pump driving wheel 64 is fixedly secured to the rotation shaft A, and a pump input wheel 63 is fixedly secured to the pump shaft 70. The pump driving wheel 64 and the pump input wheel 63 are interlockingly connected each other through a wrapping connector 65. And the cooling water within the radiator 10 is adapted to be delivered under pressure to a water jacket 22 and circulated to the radiator 10 by means of the water pump 62.

FIG. 1





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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
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| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. Cl. 4) |
| X | US-A-2 004 405 (GUMPPER) * Page 2, left-hand column, line 59 - right-hand column, line 62; figures 1-7 * | 1,2,5-7 | F 01 P 3/18 F 01 P 5/10 F 02 B 75/18 |
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| The present search report has been drawn up for all claims | | | TECHNICAL FIELDS SEARCHED (Int. Cl.4) |
| | | | F 01 P F 02 B |
| Place of search THE HAGUE | | Date of completion of the search 17-05-1989 | Examiner KOOIJMAN F.G.M. |
| CATEGORY OF CITED DOCUMENTS | | | |
| X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |