

Title (en)

Cooling water pump for use on the housing of an internal combustion engine.

Title (de)

Kühlwasserpumpe zur Verwendung an dem Pumpengehäuse einer Brennkraftmaschine.

Title (fr)

Pompe à eau pour circuit de refroidissement pour usage sur le carter d'un moteur à combustion interne.

Publication

EP 0491130 B1 19940406 (DE)

Application

EP 91117710 A 19911017

Priority

DE 4040200 A 19901215

Abstract (en)

[origin: US5224823A] A cooling water pump for a pump housing of an internal combustion engine includes a bearing cover that can be fixed within a bore of the pump housing. The pump also includes a pump shaft and a bearing. The pump shaft is rotatably mounted in the bearing. An impeller and a pulley are each coupled to the pump shaft, and the impeller has an inlet opening that is circular in shape and concentric with the impeller. The inlet opening is disposed at the end of the impeller that faces the pump housing in the axial direction. A first concentrically formed covering covers the impeller and is impermeable to liquids flowing in the axial direction. The first covering is disposed in first zones located radially beyond the inlet opening, and the impeller is open in second zones located on a side of the impeller axially opposite the first covering.

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CPC (source: EP US)

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