

Title (en)  
SHELL SYSTEM FOR A MACHINE HOUSING STRUCTURE FOR A COMBUSTION ENGINE

Title (de)  
WANNENSYSYSTEM FÜR EINE MASCHINENGEGÄUSESTRUKTUR EINER BRENNKRAFTAMSCINE

Title (fr)  
SYSTEME DE CUVE POUR UNE STRUCTURE DE CARTER D'UN MOTEUR A COMBUSTION INTERNE

Publication  
**EP 3070280 B1 20190828 (DE)**

Application  
**EP 16000593 A 20160311**

Priority  
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Abstract (en)  
[origin: US2016265402A1] A pan system suitable for an engine housing structure of an internal combustion engine has two inner and outer pans with bottoms and upright walls which are placed inside one another and are trough-shaped in cross section. The inner pan accommodates lubricating oil of the internal combustion engine and the outer pan with the bottom and the upright walls runs at least in certain areas at a distance from the bottom and the walls of the inner pan so as to result in a channel-like intermediate space which contains cooling liquid of the internal combustion engine for affecting the temperature of the inner pan. Fins are provided on the inner walls and the outer walls, and the inner pan and the outer pan interact through the medium of a supporting system. To optimize the pan system, the inner pan and the outer pan are made of metallic material and the inner pan is provided at least on one inner side of the bottom and the upright walls with a cooling fin system that optimizes heat transfer. The supporting system is effective between the bottoms of the inner pan and the outer pan. The upright walls of the inner pan and of the outer pan are connected to the engine housing structure.

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