

Title (en)  
Simple fire truck with easy movement

Title (de)  
Einfaches Feuerwehrfahrzeug mit leichter Bewegung

Title (fr)  
Fourgon de pompiers simple avec déplacement aisé

Publication  
**EP 2617469 A3 20130807 (EN)**

Application  
**EP 12003574 A 20120508**

Priority  
KR 20120006244 A 20120119

Abstract (en)  
[origin: EP2617469A2] Provided is a simple fire truck that easily moves to a narrow fire occurred spot difficult for a car to enter by using a transfer wheel driven by a motor separately from a pump driven by an engine, the simple fire truck including: a depressurization groove that is formed between a chamber where a sealing unit receiving pressure of the pump is provided, and a suction hole, so as to depressurize a pressure of the chamber; a lubricating water supply unit for improving durability through lubrication and cooling by supplying lubricating water to an inlet of the chamber according to a vacuum pressure generated during an initial activation of the pump; and a rotor unit having a first protrusion at an end of a side of a rotor provided inside the chamber, and a second protrusion at a periphery of a shaft hole through which a rotation shaft penetrates. Accordingly, the simple fire truck easily moves to the narrow fire occurred spot difficult for a car to enter by using the transfer wheel driven by the motor separately from the pump driven by the engine, prevents a damage of the sealing unit by depressurizing a pressure transferred to the sealing unit by forming a groove between the chamber and a suction unit formed inside the pump, and improves durability of a positive-displacement pump through lubrication and cooling by using a lubricating water suction unit provided at a pump suction unit during an initial activation.

IPC 8 full level  
**A62C 27/00** (2006.01); **F04C 2/16** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR)  
**A62C 27/00** (2013.01 - EP KR); **A62C 31/00** (2013.01 - KR); **F02B 63/06** (2013.01 - KR); **F04C 2/086** (2013.01 - EP); **F04C 2/16** (2013.01 - EP); **F04C 15/0026** (2013.01 - EP); **F04C 15/0096** (2013.01 - EP); **F04C 14/28** (2013.01 - EP); **F04C 15/0049** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
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**EP 2617469 A2 20130724; EP 2617469 A3 20130807**; CN 103212176 A 20130724; JP 2013146527 A 20130801; JP 5364815 B2 20131211; KR 101318409 B1 20131016; KR 20130085234 A 20130729; WO 2013108964 A1 20130725

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**EP 12003574 A 20120508**; CN 201210159893 A 20120522; JP 2012114792 A 20120518; KR 20120006244 A 20120119; KR 2012003812 W 20120515