

Title (en)  
HEAT EXCHANGER SYSTEM

Title (de)  
SYSTEM ZUM WÄRMETAUSCH

Title (fr)  
SYSTÈME D'ÉCHANGE DE CHALEUR

Publication  
**EP 3740727 A1 20201125 (DE)**

Application  
**EP 19700040 A 20190103**

Priority  
• DE 102018200792 A 20180118  
• EP 2019050062 W 20190103

Abstract (en)  
[origin: WO2019141517A1] The invention relates to a heat exchanger system comprising a heat exchanger device (1), which has elastocaloric elements (11) made of elastocaloric material and is designed to move the elastocaloric elements (11), as a result of which said elements are deformed, so that an elastocaloric effect is achieved, and a vibrating unit (2), which generates mechanical vibrations. Additionally, a vibration transfer device (3) is provided which is arranged between the vibrating unit (2) and the heat exchanger device (1) and transfers the vibrations from the vibrating unit (2) into the elastocaloric elements (11) so that the elastocaloric elements (11) move.

IPC 8 full level  
**F25B 23/00** (2006.01)

CPC (source: EP US)  
**C09K 5/02** (2013.01 - US); **F03G 7/08** (2013.01 - EP US); **F25B 23/00** (2013.01 - EP US); **F28F 21/081** (2013.01 - US); **F28F 27/00** (2013.01 - US); **F28F 2255/04** (2013.01 - US)

Citation (search report)  
See references of WO 2019141517A1

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)  
BA ME

DOCDB simple family (publication)  
**DE 102018200792 A1 20190718**; CN 111566417 A 20200821; EP 3740727 A1 20201125; JP 2021511477 A 20210506; US 2021071919 A1 20210311; WO 2019141517 A1 20190725

DOCDB simple family (application)  
**DE 102018200792 A 20180118**; CN 201980009002 A 20190103; EP 19700040 A 20190103; EP 2019050062 W 20190103; JP 2020539758 A 20190103; US 201916962408 A 20190103