



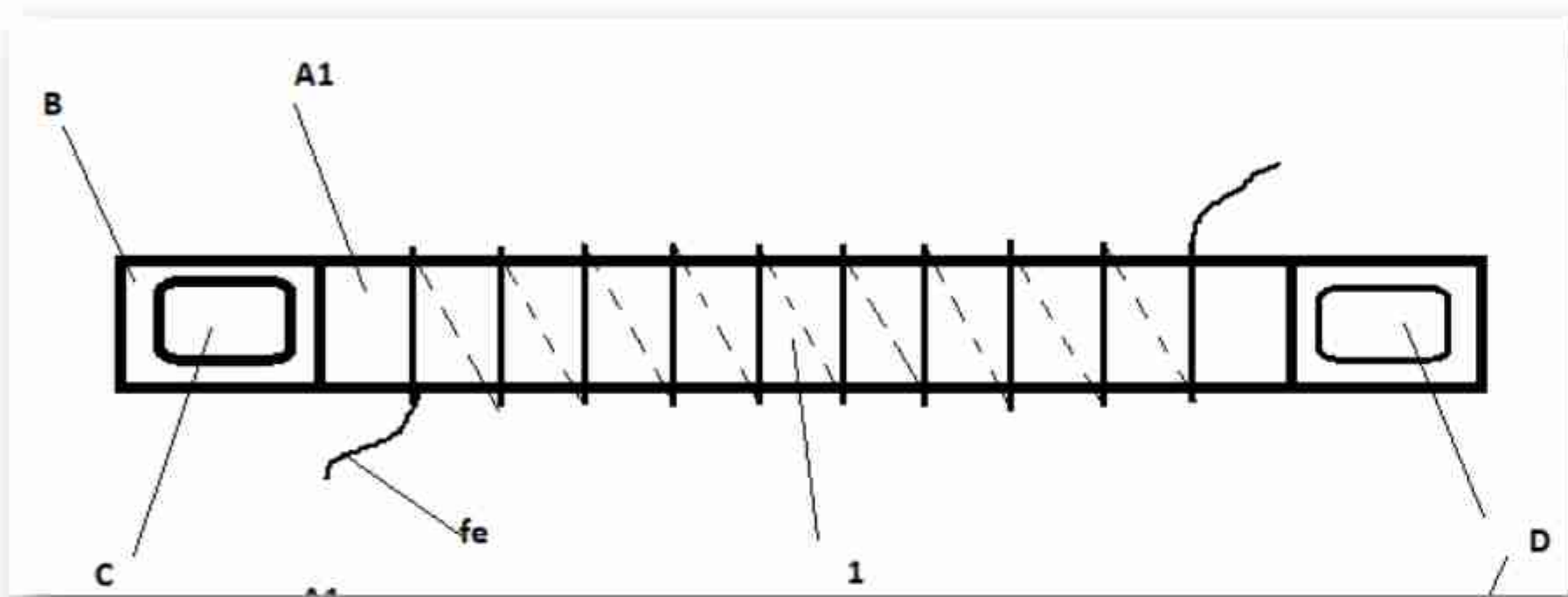
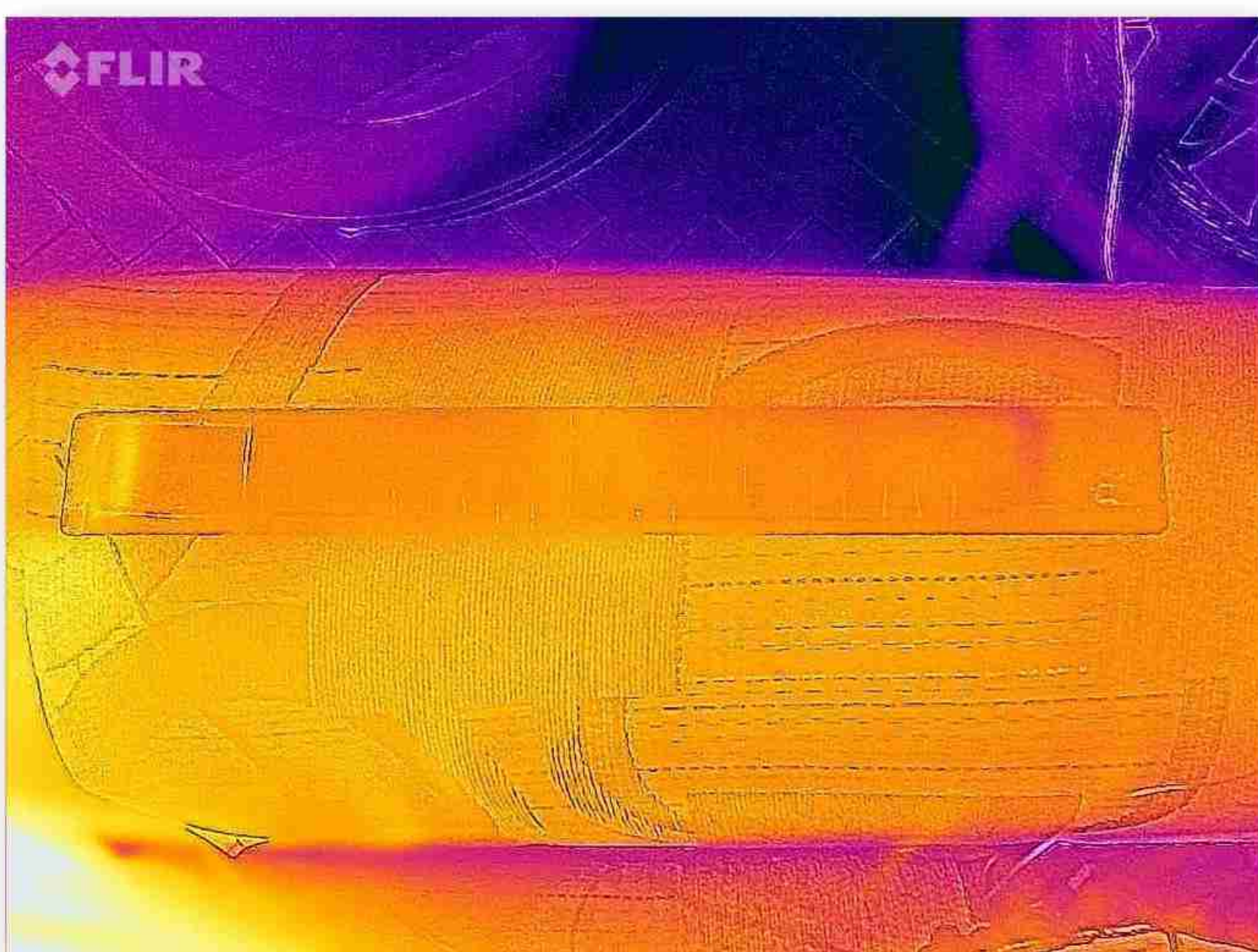
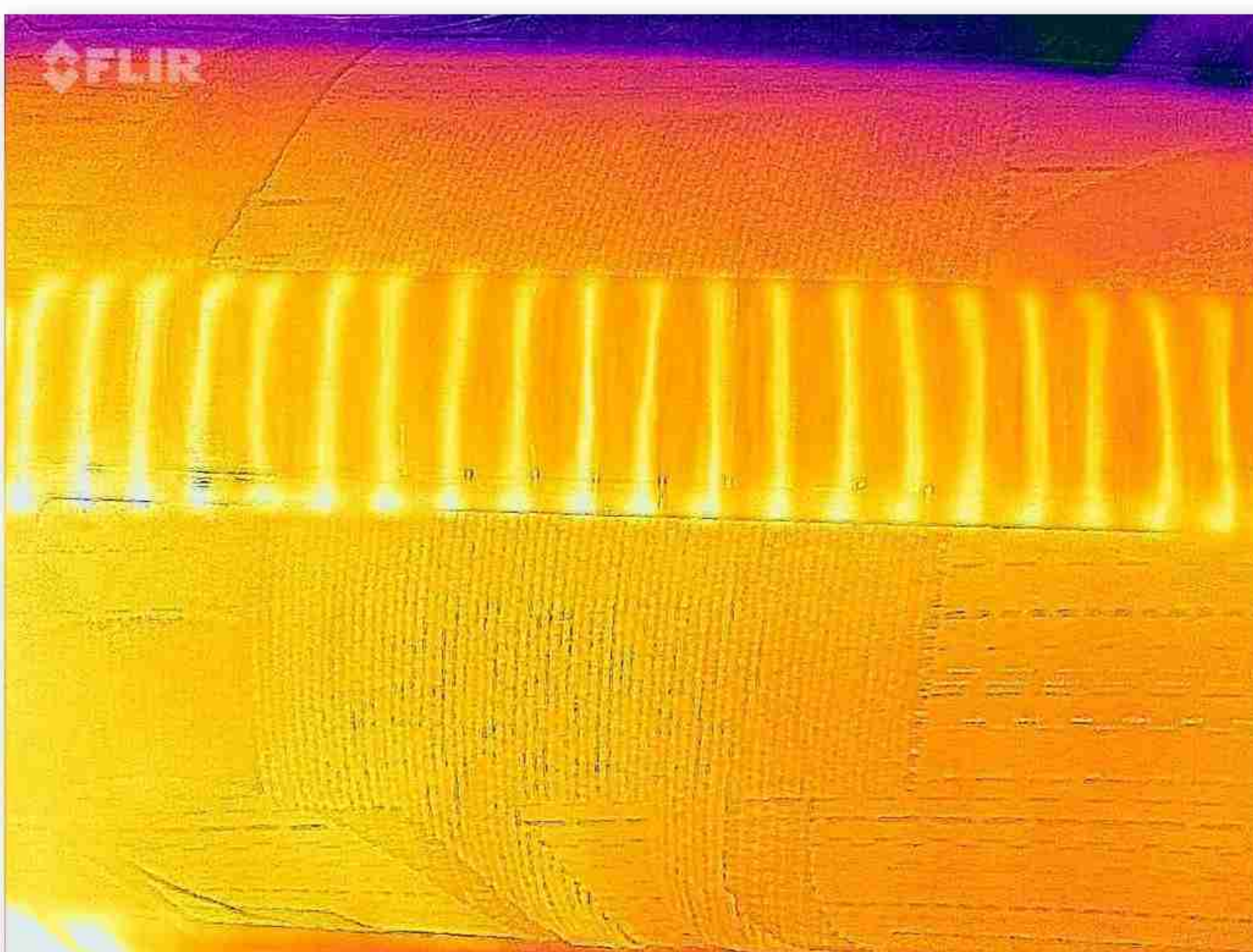
INFRARED RULER

Patent/project number: A/00388/2024

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Dragan Florin, Ivascu Larisa, Pislaru Marius*

The invention relates to an infrared ruler used for measuring linear dimensions. This is achieved by wrapping an electrically heated conductor wire around an assembly of insulating plates, with a centrally located metal plate cooled by forced ventilation or cooling elements. Alternatively, the wire can be arranged on an insulating structure with compartments through which a cooling fluid circulates, either in a single compartment or in systems with opposing or multiple flows, ensuring the uniformization of the thermal field.

The ruler is useful in research and design, allowing measurements of thermal zones in heating-cooling systems, optimizing air flows, designing and thermally optimizing electrical and electronic circuits, as well as other equipment that requires temperature management.



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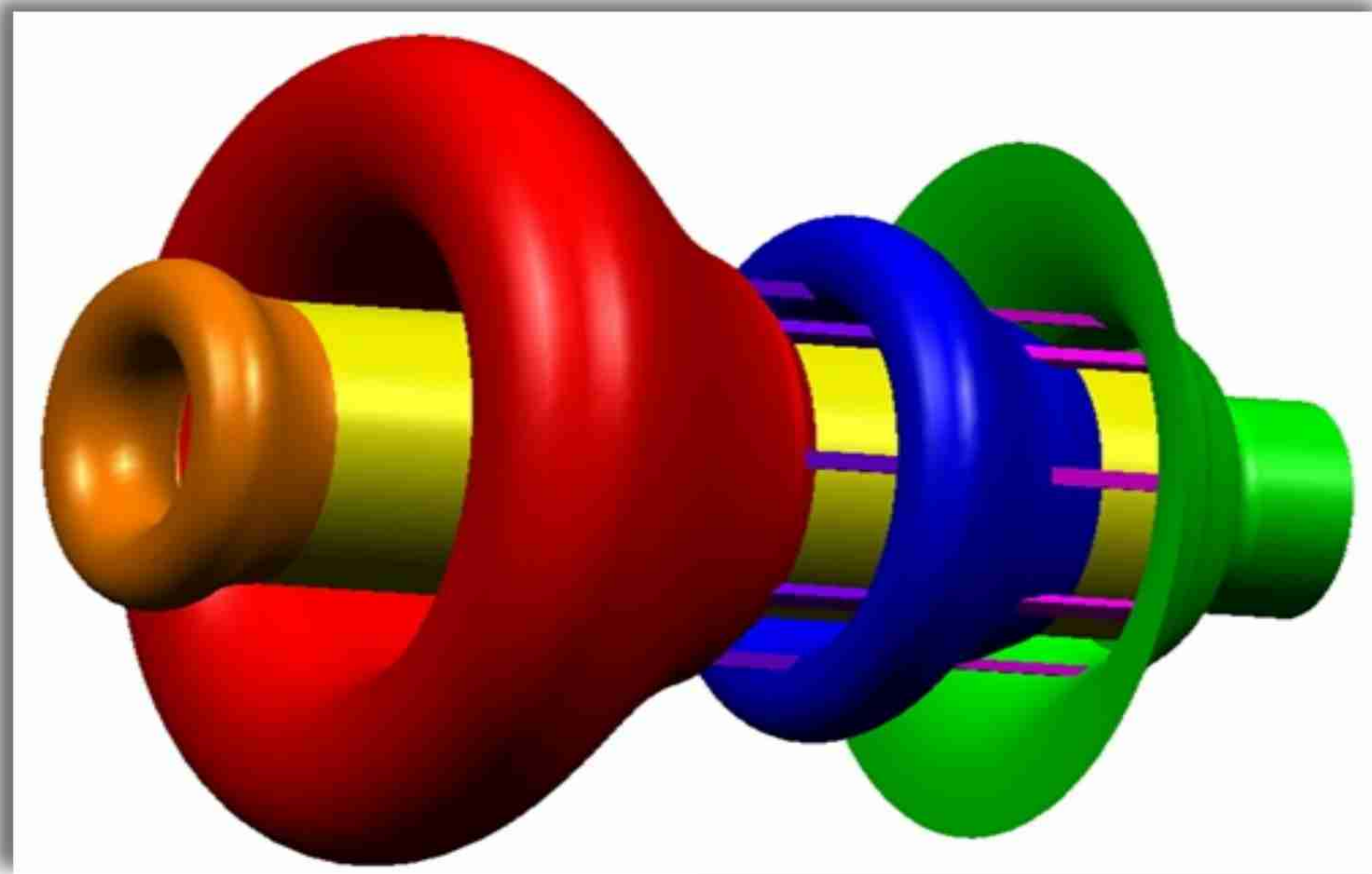
DIRECT SUPERSUCTION AIR FILTER WITH MULTIPLE DIFFUSERS

Patent application A 2023 00684 , Published RO-BOPI 4/2024

Author: Corneliu BIRTOK-BANEASA

The invention refers to an air filter, capable of capturing, recovering, accelerating and modulating the air flow used to form the fuel mixture intended for the operation of internal combustion engines in accordance with their operating regime.

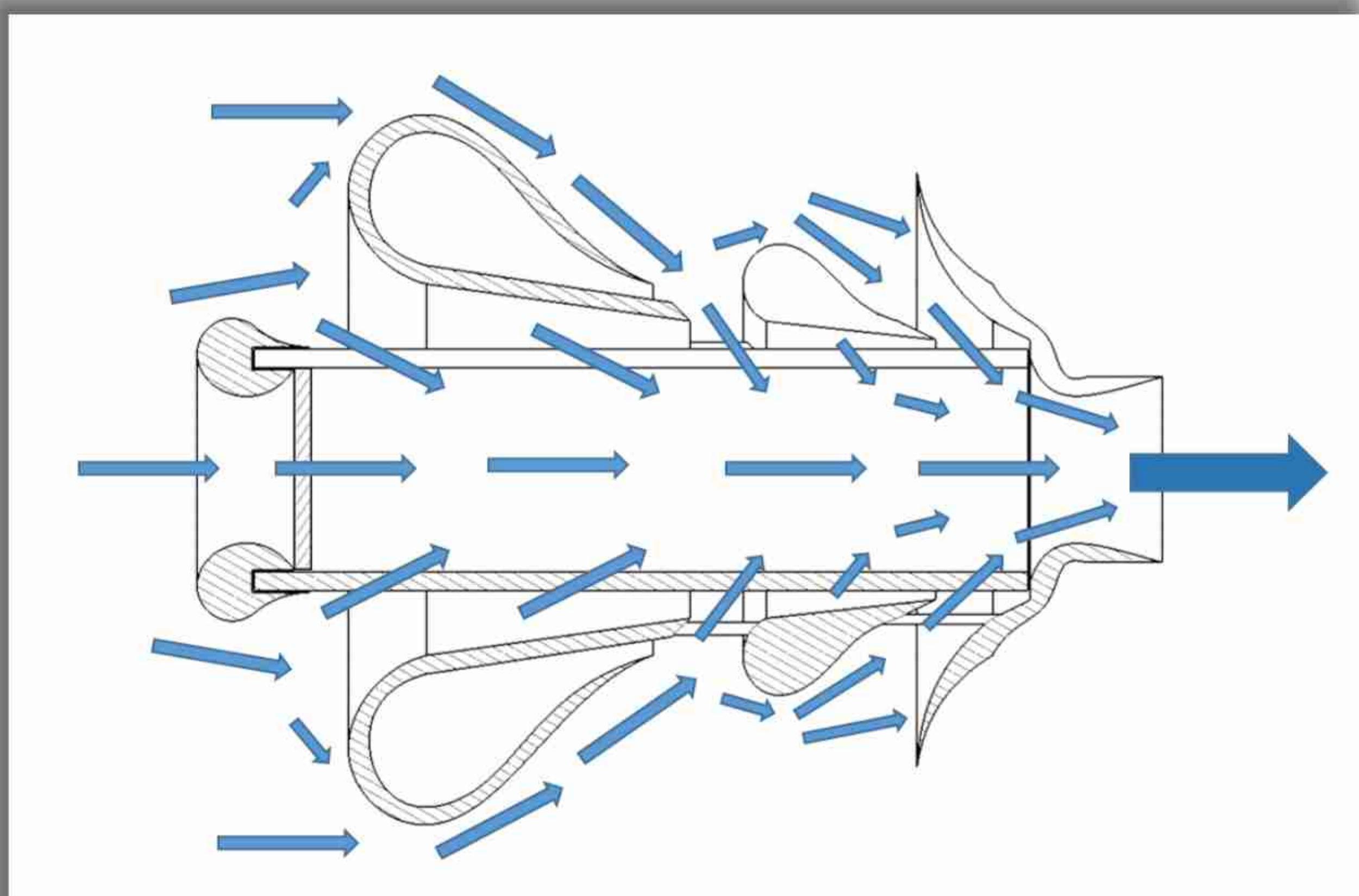
The invention can be applied mainly in the field of the construction industry of motor vehicles equipped with internal combustion engines and in the aerospace, naval, petroleum industry or in any other sector that uses internal combustion engines.



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The technical problem solved by the direct oversuction air filter with multiple diffusers for internal combustion engines according to the invention, consists in increasing the volume of filtered air available for supplying the internal combustion engine, controlling the flow of air transmitted to the engine and constructive flexibility for choosing the level of filtration.



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