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(54) Title (EN): SMA BUNDLE WIRE OPTIMISATION IN AN ENERGY RECOVERY DEVICE

(54) Title (FR): OPTIMISATION DE FIL DE FAISCEAU D'AMF DANS UN DISPOSITIF DE RÉCUPÉRATION D'ÉNERGIE

(57) Abstract:

(EN): The invention provides an energy recovery device comprising a plurality of Shape Memory Alloy (SMAs) or Negative Thermal Expansion (NTE) elements arranged as a plurality of wires positioned substantially parallel with each other to define a core wherein the wires are selected to have different dimensions such that the plurality of wires are activated at substantially the same time in response to a temperature change.

(FR): La présente invention concerne un dispositif de récupération d'énergie comprenant une pluralité d'alliages à mémoire de forme (AMF) ou d'éléments à anomalie dilatométrique (AD) agencés sous forme d'une pluralité de fils positionnés de manière sensiblement parallèle les uns par rapport aux autres pour définir un noyau où les fils sont sélectionnés pour des dimensions différentes de telle sorte que la pluralité de fils est activée sensiblement au même moment en réponse à un changement de température.

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