

Title (en)

ELASTIC COIL SPRING, DAMPING SYSTEM AND ASSOCIATED MANUFACTURING METHOD

Title (de)

ELASTISCHE SCHRAUBENFEDER, DÄMPFUNGSSYSTEM UND ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)

RESSORT ÉLASTIQUE À SPIRES, SYSTÈME D'AMORTISSEMENT ET PROCÉDÉ DE FABRICATION ASSOCIÉS

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Application

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Abstract (en)

[origin: WO2022101503A1] The invention relates to an elastic spring (1) comprising a body (10) forming coils (100) based on at least one metal. The body (10) has a hollow core (11) extending at least along the coils (100), between an inlet (101) and an outlet (102) of the body (10), the hollow core (11) defining a space for a heat transfer fluid to flow inside the coils (100), the spring (1) being configured such that a heat transfer fluid enters the hollow core (11) through the inlet (101) of the body (10), flows through the hollow core (11) and exits the hollow core (11) through the outlet (102) of the body (10). Since the spring (1) is capable of being tempered by a heat transfer fluid flowing inside its coils (100), temperature decay of its mechanical properties is limited or avoided, especially in a thermally constrained environment.

IPC 8 full level

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