

Title (en)
ENCASED ASYMMETRIC COIL INNERSPRINGS WITH ALTERNATING COIL SPRING ORIENTATIONS

Title (de)
ASYMMETRISCHE UMHÜLLTE SPULENINNENFEDERN MIT ALTERNIERENDEN SCHRAUBENFEDERAUSRICHTUNGEN

Title (fr)
RESSORTS HÉLICOÏDAUX INTERNES ASYMÉTRIQUES ENCASTRÉS PRÉSENTANT DES ORIENTATIONS DE RESSORTS HÉLICOÏDAUX ALTERNÉES

Publication
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Application
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Priority
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Abstract (en)
[origin: WO2014152935A1] Encased coil innersprings with alternating spring coil orientations utilize a common coil configuration and a uniform encasement or pocket configuration, and wherein the coils have an asymmetrical configuration and the vertical end-up orientation of the coils that is alternated or otherwise varied. Selected coils in different areas or patterns in the array of pocketed coils that form the spring core are inverted, relative to a support surface of the spring core, within the individual pockets. The inverted coils have spring characteristics including spring rate, stiffness and initial deflection force which are different from the spring characteristics of the non-inverted coils due to the asymmetry of the coils along a longitudinal axis.

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