Abstract Title: **Asymmetric sprocket assembly with metal cushion rings**

A sprocket assembly (AS) includes a sprocket body (110) comprising: (i) first and second hubs (116a, 116b) that project axially outward from opposite first and second axial faces (114a, 114b); and, (ii) a plurality of teeth (120) that extend circumferentially in a row and that project radially outward between the first and second hubs. Each of the teeth includes a drive flank (124) and a coast flank (126). The drive flank and coast flank of at least some of the teeth are shaped differently from each other so as to define an asymmetric tooth profile. First and second metal cushion rings (112a, 112b) are captured and float eccentrically on the first and second hubs, respectively. The teeth are identical or multiple asymmetric tooth profiles are used on a single sprocket body and arranged in a regular or irregular pattern. The root surface between successive teeth can be relieved so that a space is defined between the root surface and a roller that bridges the root.
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