

Title (en)  
TORQUE-INCREASING DEVICE

Title (de)  
DREHMOMENTERHÖHUNGSEINRICHTUNG

Title (fr)  
DISPOSITIF D'AUGMENTATION DE COUPLE

Publication  
EP 4342063 A1 20240327 (EN)

Application  
EP 22805725 A 20220519

Priority  
• US 202117326509 A 20210521  
• US 2022072430 W 20220519

Abstract (en)  
[origin: WO2022246446A1] The torque-increasing device includes multiple rotating discs, rings, or rotors, each including embedded or affixed magnets. The discs are canted toward each other, thus passing closer to each during the first half of a rotation, and further apart during the second half of a rotation. As the adjacent magnets attract each other, the attractive force is split into two vectors: a vector that is perpendicular to an imaginary plane that divides the discs, and a torque vector that is parallel to the face of the rotors. Disruption of the attraction of the magnets on either the upper or lower half of the rotor, or a segment of the upper or lower half, unbalances the rotors and captures a torque.

IPC 8 full level  
H02K 49/10 (2006.01); B60K 17/12 (2006.01); H02K 7/02 (2006.01)

CPC (source: EP)  
H02K 49/10 (2013.01)

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US 2022072430 W 20220519; CN 202280034829 A 20220519; EP 22805725 A 20220519; JP 2023568274 A 20220519; TW 111118558 A 20220518