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(12) **United States Patent**  
**Pham et al.**

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(54) **MOTOR DRIVE SYSTEM FOR WINDOW COVERING SYSTEM WITH CONTINUOUS CORD LOOP**

(58) **Field of Classification Search**  
CPC ..... E06B 9/40; E06B 9/74; E06B 9/68; E06B 2009/6818; E06B 2009/6827  
See application file for complete search history.

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(56) **References Cited**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 173 days.

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**Related U.S. Application Data**

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(57) **ABSTRACT**

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A motor-operated drive system for a window covering system including a headrail, a mechanism associated with the headrail to spread and retract the window covering, and a continuous cord loop extending below the headrail for actuating the mechanism to spread and retract the window covering. The drive system includes a motor, a driven wheel that engages and advances the continuous cord loop, and a coupling mechanism for coupling the driven wheel to a rotating output shaft of the motor for rotation of the driven wheel. The drive system includes a channel system for redirecting the continuous cord loop engaged by the driven wheel, or other mechanism for configuring the drive system

(52) **U.S. Cl.**

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