

IP LICENSING & COMMERCIALISATION

SALIM SULEMAN MAJID

SALIM D C ELECTRIC MOTOR

Patent No.: 537816

OVERVIEW

Our patented DC Motor Design, SALIM D C ELECTRIC MOTOR, is a revolutionizing DC Motor. It is a novel and proprietary electric motor design utilizing improved force mechanics to deliver enhanced performance over traditional motors. It overcomes the limitations of a traditional Faraday Motors in force distribution and torque output.



Understanding the Problem with Traditional DC Motors (Faraday Motor)

Forces Distribution Issue:

At 90° and 270°, forces are zero.

At 0° and 180°, forces are at a maximum.

In other angles, forces are variable and less efficient.

Result: Reduces motor efficiency and torque consistency.



Technical Solution - The Salim Motor

Armature Design Change: Transition from a rectangular to a circular design.

Benefits: Ensures consistent force distribution across all angles.

• **Modified Rotation Axis:**Shifted from OY to OX axis to optimize rotational movement.

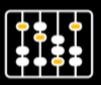
Optimal Angle Alignment: Maintaining angle θ close to 90° maximizes force output.

Salim Motor's Technical Design Features

- •Battery Source: Supplies the DC power.
- •Starting Switch and Regulator: For controlling power flow.
- •Armature: Redesigned for a circular motion around the OX axis.
- •Commutator and Carbon Brush: For current direction switching and power delivery.
- •Magnetic Field Setup: Two magnets facing each other with the armature in between.
- •Ball Bearings and Pulley: For mechanical operation and motion transmission.

Technical Principles of Salim Motor

- Alignment of Armature: Nearly perpendicular to magnetic poles for better interaction.
- Force Vector Orientation: Force (F) aligns with velocity (V) for improved efficiency.
- Current and Magnetic Field Relationship: Current (I) is perpendicular to magnetic flux (B), maximizing torque.



Performance Advantages Over Traditional DC Motors

Increased Torque Output:

- Faraday Motor Torque (M1): 6 Fl
- Salim Motor Torque (M2): 8 Fl, providing better mechanical output.

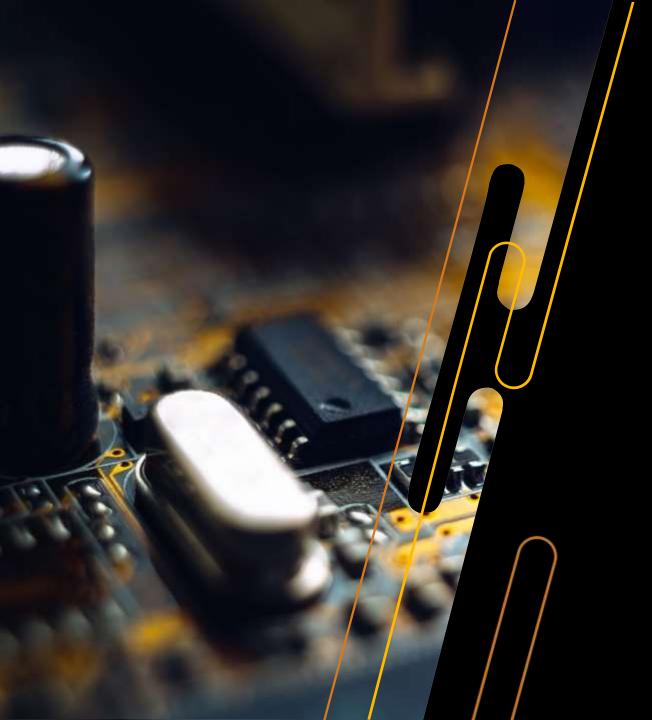
Energy Efficiency:

• Reduced energy losses due to optimized force alignment.



Potential Applications of the Salim DC Electric Motor

- **Electric Vehicles:** Enhances motor efficiency, improving vehicle range and performance.
- **Drones:** Provides smoother and more stable flight dynamics.
- Industrial Machinery: Suitable for both stationary and mobile applications.
- **Electricity Generation:** Functions as a generator when used in reverse mode.



Market Analysis and Potential

Growing Electric Vehicle Market

Demand for efficient motors driven by EV adoption.

Industrial Automation Needs

Increasing requirements for reliable motors in machinery.

Drone Market Expansion

Rapid growth in consumer and commercial drone applications.

Generator Market Opportunities

Expansion in renewable energy sector for efficient generators.

Competitive Edge

- Ol. Cost-Effectiveness: Reduced operational costs due to consistent performance.
- O2. Versatility Across Industries: Applicable in various sectors, including automotive, industrial, and aerospace..
- O3. Enhanced Efficiency and Torque Output: Provides better overall motor performance.

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