

Role of split ring in an electric motor

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Distribute the referral code to your friends and ask them to register with Tutorix using this referral code. Once we get 15 subscriptions with your referral code, we will activate your 1 year subscription absolutely free. Your subscribed friend will also get 1 month subscription absolutely free. Answer : The split ring reverses the direction of current in the armature coil after every half rotation due to change in orientation of the magnetic field, i.e, it acts as a commutator. The reversed current reverses the direction of the forces acting on the two arms of the armature after every half rotation and this allows the armature coil to rotate continuously in the same direction. Complete Study Material based on Class 12th Syllabus, 10000+ Question Bank, Unlimited Chapter-Wise and Subject-Wise Mock Tests, Study Improvement Plan. Buy Now Complete Study Material based on Class 12th Syllabus, 10000+ Question Bank, Unlimited Chapter-Wise and Subject-Wise Mock Tests, Study Improvement Plan. Buy Now - AI Coach Study Modules, - Unlimited Mock Tests, - Expert Mentorship, - Study Improvement Plan. Buy Now - AI Coach Study Modules, - Unlimited Mock Tests, - Expert Mentorship, - Study Improvement Plan. Buy Now - AI Coach Study Modules, - Unlimited Mock Tests, - Expert Mentorship, - Study Improvement Plan. Buy Now NCERT - ScienceIn Text Questions-Pg-224In Text Questions-Pg-228In Text Questions-Pg-229In Text Questions-Pg-231In Text Questions-Pg-233In Text Questions-Pg-236In Text Questions-Pg-237In Text Questions-Pg-238Exercise-Pg-240123456789101112131415161718Try our Mini CourseMaster Important Topics in 7 DaysLearn from IITians, NITians, Doctors & Academic ExpertsDedicated counsellor for each studentDetailed Performance Evaluationview all courses gcsescience.com 13 gcsescience.com Electromagnetism Electric Motor. What is a Split - Ring Commutator? A split - ring commutator (sometimes just called a commutator) is a simple and clever device for reversing the current direction through an armature every half turn (see the previous page). The commutator is made from two round pieces of copper, one on each side of the spindle. A piece of carbon (graphite) is lightly pushed against the copper to conduct the electricity to the armature. The carbon brushes against the copper when the commutator spins. As the motor rotates, first one piece of copper, then the next connects with the brush every half turn. The wire on the left side of the armature always has current flowing in the same direction, and so the armature will keep turning in the same direction (see the previous page). The pieces of copper are held apart in the centre and do not touch each other. They look like a ring of copper which is split down the middle This is why it is called a split - ring commutator. Links Electromagnetism Revision Questions gcsescience.com Physics Quiz Index Electric Motor Quiz gcsescience.com Home GCSE Chemistry GCSE Physics Copyright © 2015 gcsescience.com. All Rights Reserved. What is the role of split ring in an electric motor? The split-ring in an electric motor reverses the direction of current in the armature coil of the motor. Therefore, the direction of the force acting on the two arms of the coil is also reversed. As a result of this, the coil of D.C. motor continues to rotate in the same direction. 1 Like

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