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(57) Abstract :

The present invention relates to an electromagnetic eddy current brake assembly (100) to be employed in automobiles that reduce sliding friction of brakes. The assembly (100) includes a conductor plate (102) coupled to an axle (104) of the vehicle, an electromagnet unit (108) configured adjacent to the conductor plate and comprising a solenoid (110), an electric current source configured such that, upon pressing a brake pedal of the vehicle the solenoid (110) of the electromagnet unit (108) generate a magnetic field produced by the eddy current slowdown the rotation of the conductor plate, thereby reducing the speed of the axle, also when speed of the axle (104) is slow, a pair of drum brakes (120) are applied.

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