A conducting ring is placed onto the protruding ferromagnetic core of a coil. When an AC current is applied to the coil the ring will fly off of the apparatus. While Lenz’s law is often cited as the reason for this behavior, Lenz’s law is insufficient to describe the force on the ring. One may show that a ring with a gap will not jump when current is applied. One may also show that a ring cooled with liquid nitrogen will jump much higher than one at room temperature.

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