Plugless Power for Electric Vehicles
How these two coils work?

Mutual inductance

\[ \epsilon_2 = -M \frac{d I_1}{dt} \]

If the input current is an AC current as:

\[ I_1(t) = I_0 \sin(\omega t) \]

\[ \epsilon_2(t) = -M \omega I_0 \cos(\omega t) \]

This is used to charge the battery in the EV
Other Possibilities

Electric toothbrush

Cell Phone

And.... you name it...