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(54) **REDUCED CAMERA SIZE WITH MAGNET ATTACHMENT AND WIRELESS CHARGING**

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(57) **ABSTRACT**

A camera module includes a camera, a charging coil, and a magnetic assembly. The charging coil is located in a bottom portion of the camera module. The charging coil provides wireless charging of the camera. The magnetic assembly is located in a rear portion of the camera module. The magnetic polarities of the magnetic assembly produce a large magnetic flux outside the camera module and a low magnetic flux within the camera module.

