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(54) Title: PERCHING UAV WITH RELEASABLE CRAWLER

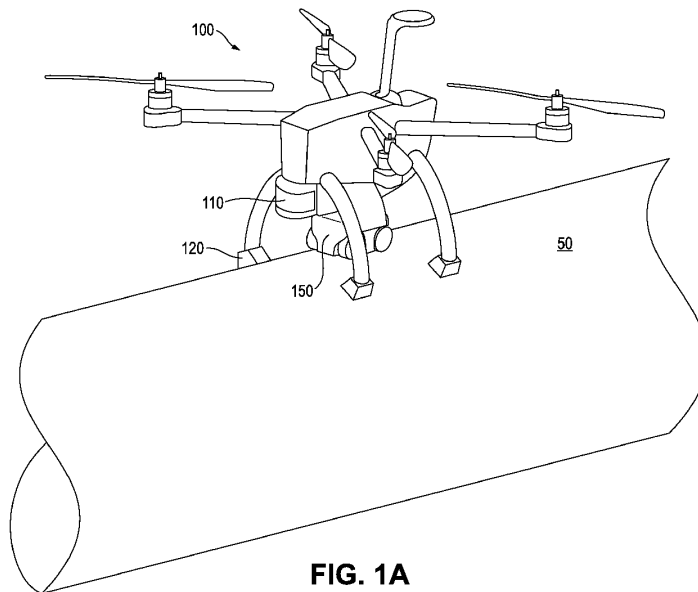


FIG. 1A

(57) **Abstract:** An unmanned aerial vehicle (UAV) (100) includes a body constructed to enable the UAV to fly and three or more legs connected to the body and configured to land and perch the UAV on a curved ferromagnetic surface (50). Each leg includes a first portion connected to the body, a second portion including a magnet (120) and configured to magnetically attach and maintain the magnetic attachment of the leg to the ferromagnetic surface during the landing and perching, and a passive articulation joint connecting the first and second portions and configured to passively articulate the second portion with respect to the first portion in response to the second portion approaching the ferromagnetic surface. The UAV further includes a releasable crawler (150) including magnetic wheels which detach the crawler from the body during the perching and maneuver the crawler on the ferromagnetic surface while magnetically attaching the crawler to the ferromagnetic surface after detachment.

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