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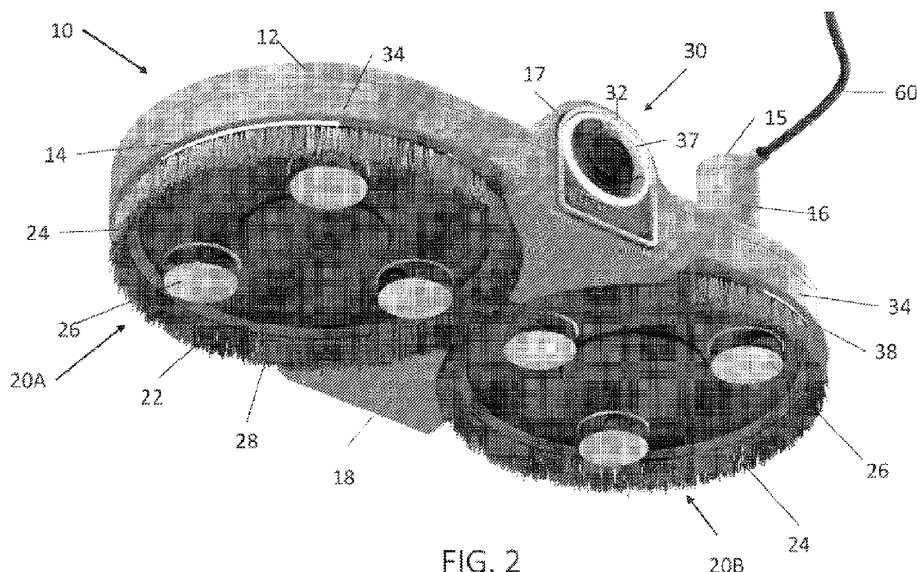


FIG. 2

(57) Abstract: In a first aspect, embodiments described herein relate to a submersible robot system for inspecting and/or grooming objects (e.g., naval vessels) in a marine environment. In some embodiments, the robot system includes a housing; a plurality of adhesion engines disposed within the housing; an illumination device; and an imaging device. In some applications, each adhesion engine includes a plurality of adhesion devices structured and arranged to secure the system to the object; a magnetic switch motor for switching on and off the adhesion devices; at least one grooming element; and a body rotation motor for moving the grooming element across a surface of the object.

[Continued on next page]

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