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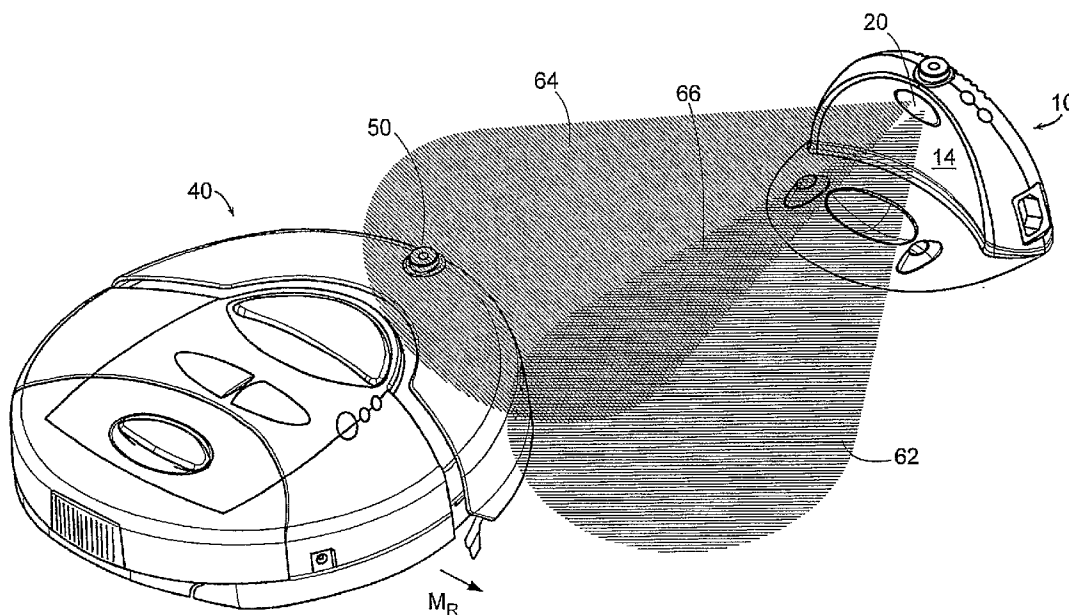
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(54) **Title**: METHOD OF DOCKING AN AUTONOMOUS ROBOT



(57) **Abstract**: A method of docking a robotic device with a base station includes the steps of detecting a low energy level in an on-board battery, orienting the robot in relation to a detected overlap between two infrared beams emitted by the station, detecting contact between the charging terminals on the robot and on the base station, charging the on-board battery and resuming a robot's task, such as vacuuming. Also disclosed are systems for emitting avoidance signals to prevent inadvertent contact between the robot and the base station, and systems for emitting homing signals to allow the robot device to accurately dock with the base station.

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