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Walk and Roll Robot

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DESCRIPTION

This technology is a mobile robotic unit. The unit has multiple legs supporting a main body i.e. vehicle body, and moving the main body in forward direction and reverse direction about a base surface. The leg includes wheels to roll along the base surface. A drive assembly comprises a motor operatively associated with hip and knee joints and the wheels for independently driving pivotal movement of the hip joint and the knee joint and rolling motion of the wheels. The assembly comprises drive shafts imparting driving pivotal movement to the hip and knee joint and rolling motion to the wheels

FEATURES AND BENEFITS

- The unit includes mass of a robot that is contained in the main body, thus shifting center of mass easily when needed for various movements.
- The height of center of mass can be adjusted independently of the wheel motion, thus increasing stability while traversing obstacles, and providing greater stability during turning at high speed.

APPLICATIONS

- Robotics
- Motion Control

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-15419-1, please contact:

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