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(54) Title: WHEELCHAIR CURB-CLIMBING AND CURB-DESCENDING SYSTEM

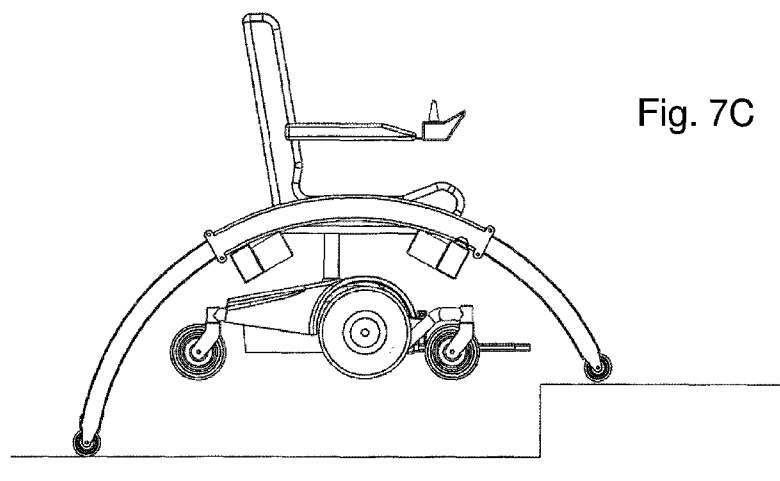


Fig. 7C

(57) Abstract: A wheelchair curb-climbing and curb-descending system for aiding a wheelchair to negotiate a curb. The system includes a wheelchair attachment mechanism; a pair of front arms adapted to extend to lift a front portion of wheelchair and to retract back to lower the front portion of the wheelchair; a pair of rear arms adapted to extend to lift a rear portion of wheelchair and to retract back to lower the rear portion of the wheelchair. The system further includes an arm extending mechanism for extending/retracting the arms; a rotatable lifting-arm wheel at free ends of each arm; a wheel motor for rotating the arm wheels; an operation control unit; and a leveling mechanism for ensuring the seat of the wheelchair remains substantially level to the ground during operation of the system.