TRANSVERSE PARKING APPARATUS AND METHOD

ABSTRACT

An apparatus and system of parking a motor vehicle 20 transversely is provided to enable vehicles to be parked closer to each other end-to-end, so as to increase the density of parking. The vehicle drive wheels 22 are parked to straddle a pair of helical rollers 30a, 30b whilst the other set of wheels rest on free-wheeling rollers 40a. The free-wheeling roller 40a axes are orthogonal to those of the helical rollers 30a, 30b. The rotation of the drive wheels drives the helical rollers 30a, 30b, which thereby generates a force on the drive wheels either in the direction of parking into F_1 or out F_2 of the parking lot according, to the direction of the helices and the direction of rotation of the drive wheels 22.

Fig. 1