



ABSTRACT

Disclosed is a spindle unit, which comprises a cylindrical housing (13), a cup-shaped hub (1) including a boss (4) projecting from a bottom center of the hub (1) to an inside of the cup, having a shaft engaging straight through hole and loosely fitted into the housing (13), a substantially cylindrical bearing member (2) including a radial slide bearing (2a) formed on an inner cylindrical surface thereof and thrust slide bearings (2b) formed on both end surfaces thereof and press-fitted into the housing (13) with one of the thrust slide bearings (2b) being confronted with an end surface of the boss (4) with a first predetermined clearance, a shaft (5) loosely fitted into the bearing member (2) with a predetermined clearance and press having a straight end portion fitted into the shaft engaging hole of the boss (4) and including a collar (6) disposed at an end thereof opposite to the press fitted straight end portion and confronting the other of the thrust slide bearings (2b) with a second predetermined clearance, a fluid seal (10) fixed to an end of the housing (13) confronting the boss (4), a cap (12) fixed to the other end of the housing (13) to form an oil chamber (14) together with the housing (13) and the fluid seal (10), fluid (11) filled in the oil chamber (14), a motor (9) for driving the hub (1) in rotation including a stator (7) fixed on an outer cylindrical surface of the housing (13) and a rotor (8) fixed on an



- 19 -

inner cylindrical surface of the hub (1) in opposed relationship with the stator (7).