

The invention relates to the mechanical engineering and may be used in different metal-cutting machine tools: lathe, boring, drilling, milling.

The boring head includes a body, provided with a handle and fixed onto a shaft, as well as a tool-holder movement mechanism enclosed into the body. Onto the shaft it is made a collar with inclined surface, directed towards the tool-holder movement mechanism, containing a double satellite gear unit, mounted onto the shaft by means of a spherical bearing bush. One gear ring thereof engages into mesh with the immobile gear-wheel, which is fixed into the body from the collar inclined surface end with the possibility of contacting the face of the satellite gear unit hub with it, and the second gear ring thereof engages into mesh with the mobile gear-wheel. Into the hub of the satellite gear unit from the end of engagement with the mobile gear-wheel there is made a pit, with the inner lateral wall of which come in contact the balls, placed into the annular groove, made on the lateral surface of the nut, installed with eccentricity onto a screw, freely mounted onto the shaft, at the same time the screw head is made conic and placed outside the hub of the satellite gear unit. Into the hub of the mobile gear-wheel there are radially installed spring-loaded tool-holders, each of which is made in the form of a cylindrical rod, onto one end of which it is placed a bearing ball, coming in contact with the screw head, and onto the other end thereof it is placed a rolling ball. The tool-holder is mounted onto the boring head face with the possibility of carrying out the longitudinal feed by means of some pins, one end of each of which being rigidly fixed into the tool-holder, and the other end correspondingly is freely placed into the pit, made as an Archimedean spiral onto the face of the mobile gear-wheel.

Claims: 1

Fig.: 2