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ABSTRACT

The invention discloses a biaxial tourbillion mechanism of a mechanical watch, wherein an inner tourbillion is provided on a first second bridge; a first support shaft and an intermediate wheel in a third wheel component are fixed as one body; a second support shaft on a second support and a fourth second wheel in a transmission gear train are fixed as one body; the shaft centre of the first support shaft and that of the second support shaft are located on the same horizontal axis; and the third wheel component and the transmission gear train are provided on the main plate. There are following advantages: As the overall framework is an open-type structure, the thickness of the framework is reduced and hence an assembled watch becomes thinner; As the conical gear is selected to complete the rotational movement of the framework of the tourbillion in a space, the transmission stability becomes better and the accuracy of travel time of a watch becomes higher. As the bearing shaft of the outer framework can be disassembled wholly, it may be conveniently assembled and maintained. The axial highness of the second support is slightly regulated by the regulated device so that the coaxiality of supports at the two sides of an outer framework may be effectively guaranteed, thus enhancing the stability of the framework of the tourbillion when the framework is operated in the space.