

## ABSTRACT

A positioning mechanism, comprising a positioning main body (1) and a plurality of elastic positioning units (2). The positioning main body (1) is provided with an accommodating space for accommodating a member (3) to be positioned, and the accommodating space is provided with an inlet/outlet, which is formed in a side of the positioning main body (1) and is used for the positioned member (3) to enter in or exit therefrom; the plurality of elastic positioning units (2) are arranged in the accommodating space in such a way that same are symmetrically arranged on two sides in the direction of entering/exiting of the inlet/outlet; and each elastic positioning unit (2) comprises a sliding portion and an elastic portion, wherein the sliding portion can be arranged in the accommodating space in a reciprocating and slidable manner, the elastic portion is arranged between the sliding portion and the positioning main body (1), and when the elastic portions apply acting force to the sliding portions, the sliding portions of the symmetrically-arranged elastic positioning units (2) move opposite each other, so as to clamp the positioned member (3) and adjust the position of the positioned member (3). In the positioning mechanism, the positioned member (3) is centrally positioned by means of using symmetrical elastic forces of the elastic positioning units (2) on the two sides, without the need of using electric apparatuses, such as an electric motor, such that the positioning mechanism has a simple structure, a low cost, a small occupied space and a good positioning precision. The present invention further relates to a processing device and a positioning method therefor.