

ABSTRACT

The present invention discloses a method and device for batched compression molding of rubber and plastic products by means of multiple mold cavities. According to the method, alternate operation of a blank shuttle and a male mold that is in a bottle cap mold is controlled by means of engagement of two incomplete gear sets; besides, mold opening motion, isostatic pressing energy storage and spring energy storage are implemented by means of the engagement characteristic of the incomplete gear sets, and mold closing and compression molding are implemented by means of the non-engagement characteristic, isostatic pressing energy storage and pressurization of the incomplete gear sets. According to the device, a mold moving incomplete gear set and a mold moving rotary winding wheel are connected; a blank conveying incomplete gear set and a blank conveying rotary winding wheel are connected; one end of a mold moving cable is wound on the mold moving rotary winding wheel, and the other end of the mold moving cable is connected with a male mold supporting plate; one end of a blank conveying cable is wound on the blank conveying rotary winding wheel, and the other end of the blank conveying cable is fixedly connected to a blank conveying cable holder; the blank conveying cable holder is connected with a blank shuttle by means of a three-bar linkage mechanism. The present invention effectively resolves the general problem of low production efficiency and poor precision and stability of existing compression molding cap manufacturing equipment.