

A household catch stitch sewing machine has a shuttle mechanism and a needle mechanism installed in the body of the machine, the last one has a guide with pin, a crank, this is kinematically connected to the upper head of the piston-rod, its lower head is connected to the upper part of the needle bar and the guide installed with possibility of displacement on the needle bar, a device for control of value of long displacements of the needle that has slide installed with possibility of control of position, this is arranged with long slot, switch with slot, compression spring, this is fit to needle bar and is placed between the guide and slide way connected to the slide. The pin of the guide installed with possibility of contact with long slot of the slide or with slot of switch installed in the body of the machine. The shuttle mechanism has a kinematical chain of transverse motion of shuttle.