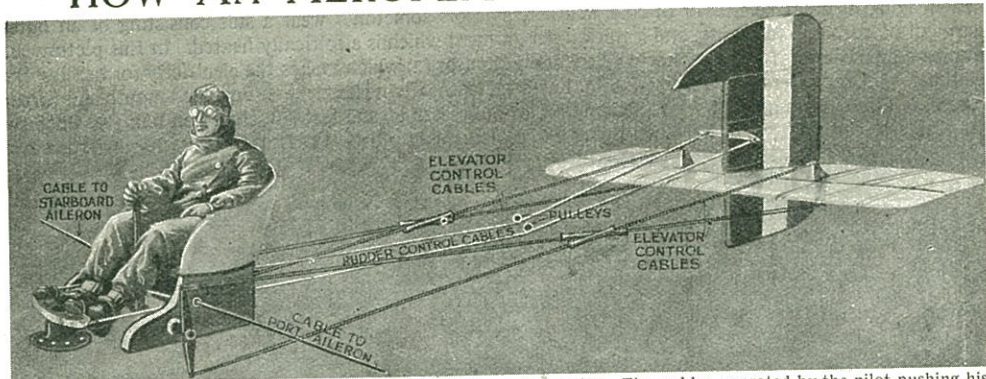
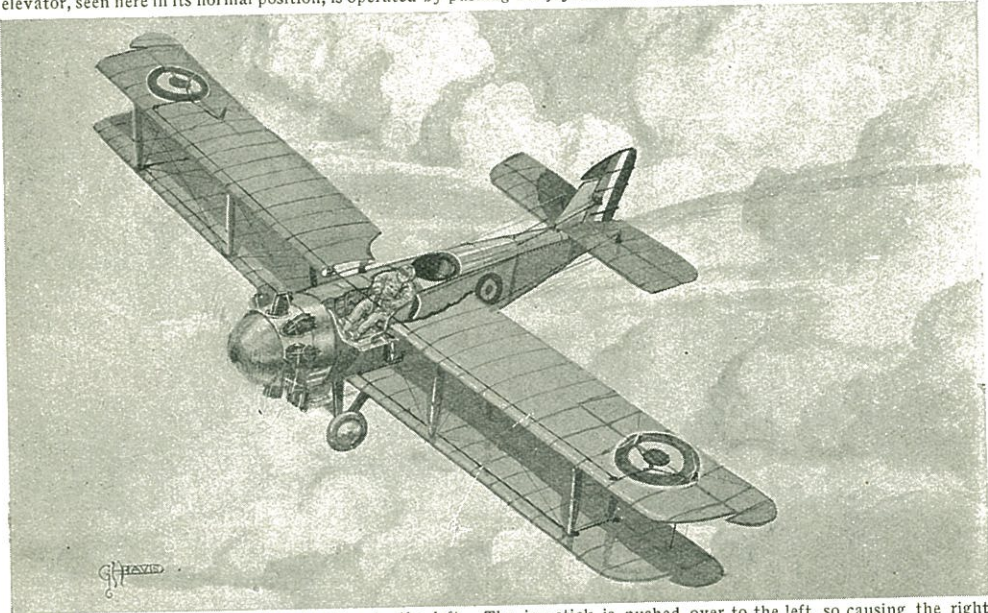


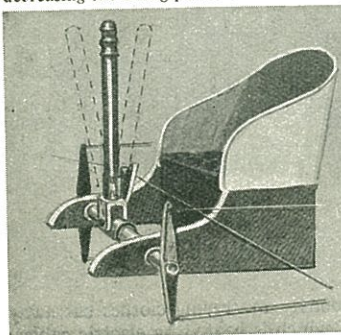
# HOW AN AEROPLANE IS CONTROLLED



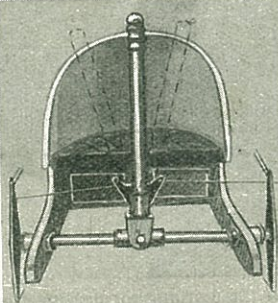
1. This picture-diagram shows the control system of rudder and elevator. The rudder, operated by the pilot pushing his left foot forward on the rudder bar, is turned to the left for making the left-hand turn seen in the picture below. The elevator, seen here in its normal position, is operated by pushing the joy-stick forward for a descent or backward for rising.



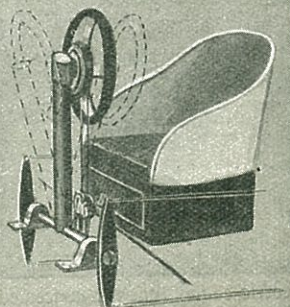
2. This picture shows an aeroplane banking to the left. The joy-stick is pushed over to the left, so causing the right ailerons to be lowered and thus increasing the lift of the right wings; at the same time the left ailerons are raised, thus decreasing the lifting power of the left wings. The aileron control cables are shown, though actually they are out of sight.



3. This is a side view of the pilot's seat and the joy-stick. The dotted lines in front show the position of the joy-stick when the aeroplane is to descend, and the dotted lines behind show its position when the aeroplane is to rise



4. This is a front view of the pilot's seat. When the pilot wishes to bank to the left he pushes the joy-stick over to his left and if he wishes to bank to the right he pushes the joy-stick over to his right, as indicated by the dotted lines



5. This shows the wheel method of control, in which the control column moves only backward and forward for rising and diving, the wheel being turned to right or left, as in a motor car, for making banked turns