Abstract

A Flaw Detection Machine With Parallel Lifting Function, Adapted For Detecting Flaw Without Demounting Wheels

The present invention discloses a flaw detection machine with parallel lifting function, adapted for detecting flaw without demounting wheels, comprising a trolley, slidable along steel rail, a base frame, a jacking apparatus and a tread flaw detecting device provided on said trolley, a first jacking mechanism for driving said jacking apparatus to move up and down, a second jacking mechanism for driving said tread flaw detecting device to move up and down, said tread flaw detecting device comprises a vertical frame, a tread probe manipulator provided at an upper end of said vertical frame, a tread probe frame provided on said tread probe manipulator, and said jacking apparatus is mounted on said vertical frame and able to slide up and down along an inner side wall of said vertical frame. Since the vertical frame for and the jacking apparatus of the flaw detection machine in the present invention are lifted independently base on the trolley, the tread probe manipulator can conveniently be moved from one side of the wheel to the other side above the jacking frame, which simplifies the operation, enhance the detection efficiency and has a better working stability and safety.

Fig. 1