

ABSTRACT

A vehicle wheel speed measuring device may be incorporated into a roll and brake inspection system. The vehicle wheel speed measuring device includes a vision sensor that captures wheel images of driving wheels of a vehicle from a side of the vehicle to be inspected, and a control unit for calculating a wheel speed over time by analyzing real-time wheel images collected from the vision sensor based on one or more wheel characteristics, such as recognized time-series spoke shapes, profile lines, or spoke spacing.

FIG. 1