NWU®

PARTFINDER – ONLINE APPLICATION FOR SIMPLIFIED IDENTIFICATION AND ORDERING OF COMPLEX MECHANICAL PARTS FOR INDUSTRIAL EQUIPMENT AND MACHINERY

Fast and accurate detection of replacement parts that can be ordered online.

Technology Overview

Partfinder is an online-based mobile application which provides real-time identification of physical objects; in this case, mechanical parts belonging to agricultural equipment. The ability to identify any part of for example a tractor, allows the user to identify and instantly place an order through the app for a new replacement part without any prior knowledge of the part name or serial number. The application aims to eliminate the need for a user to travel to the nearest part reseller to order or identify the part in question. The intelligence of the application is achieved through machine learning techniques which real-time part identification.

Market Opportunity

The painful days of paging through a parts catalogue and wondering if the correct part was identified are over. The Part Identifier App provides the convenience of taking immediately identifying the parts and ordering it online for convenient delivery.

This is value add offering part suppliers or resellers can offer the customer base. With ecommerce growing at rapid speeds and customers are seeking cost, time and convenience benefits the Partfinder can offer these advantages.

Technology Benefits

- Accurate
- Fast
- Reliable
- No hardware needed, use existing smart phone
- Saving time when ordering parts
- E-commerce functionality for part re-sellers

Project status

A prototype App has been developed. We are seeking for partners for evaluating the platform for potential licensing.

Contact: North-West University: Technology Transfer & Innovation Support Office

FR Bezuidenhout +27 (0)18 299 1679

FR.Bezuidenhout@nwu.ac.za