



MagKlik

SELF-ALIGN MAGNETIC BICYCLE PEDAL SYSTEM

PATENT NO. PI2019002964



TECHNOLOGY

MagKlik is a mountain bike (MTB) pedals which functions as safety apparatus for mountain bike rider (MBR). MagKlik equipped with magnetic lock system, it was design with biomechanics consideration.

PROBLEM STATEMENT & CURRENT ISSUES

1. Difficult to un-lock if using clipless pedal
2. Not suitable for beginner new riders
3. Slippery when using flat pedal

INVENTIVENESS & NOVELTY



MagKlik is flat pedal that combined magnetic and self-locking groove system to give more confidence to MTB riders. Using flat pedal but function same as the clipless pedal.

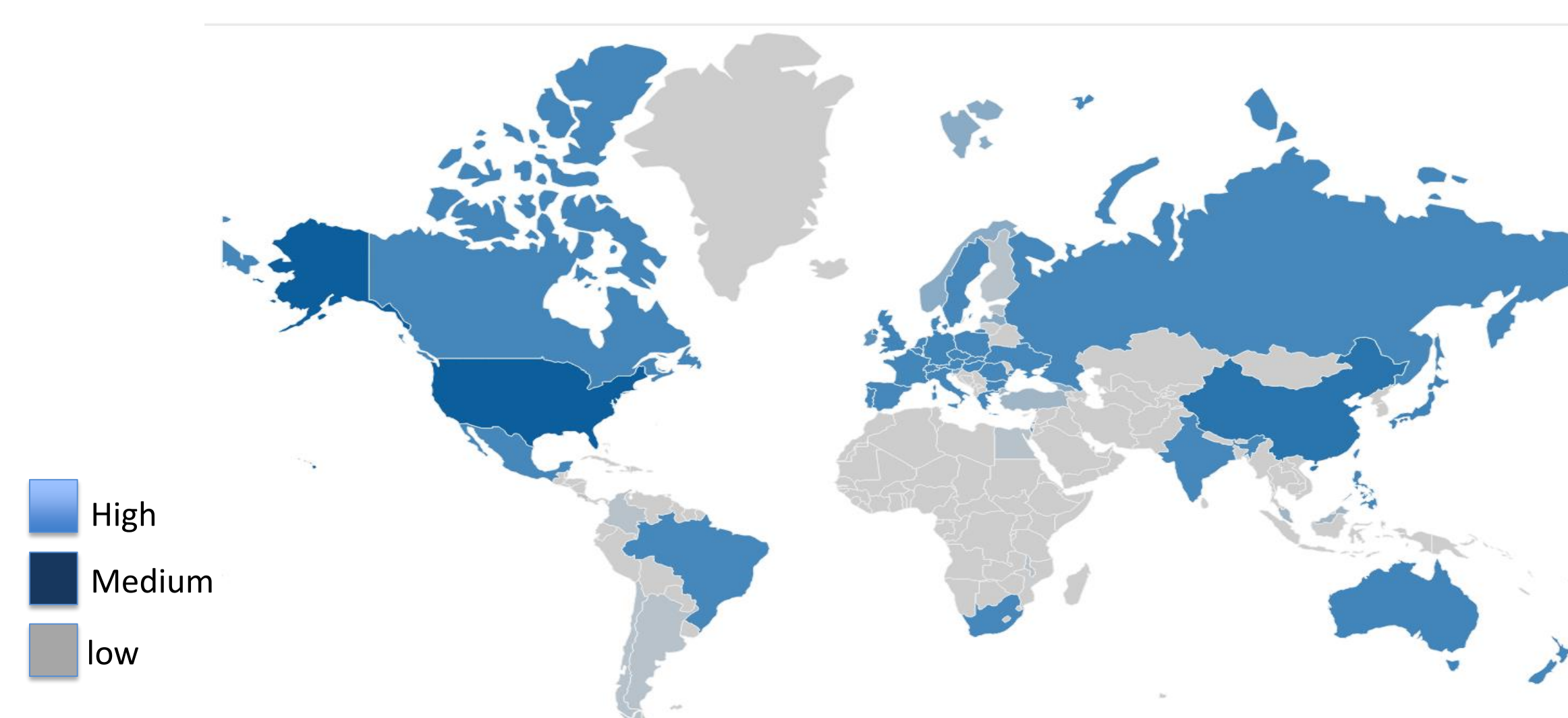
USEFULNESS & APPLICATION

MagKlik features were emphasized by analysing MBR leg movement while riding. Magnetic groove functions as a self-locking system that facilitates the rider during clip on and clip off movement. Function of the system is to make sure MTB rider feet always in static position while riding. It is important to avoid riders from involve in physical injuries or accident. Leg static condition is important to avoid prolong injury in the future.

IMPACT OF THE PRODUCT

1. Flat pedal surface - to increase riders' confidence while riding
2. Magnetic pedal - to facilitate legs static position while riding to avoid physical injuries
3. Self locking - to facilitate biomechanics movement – easy for lock and unlock position

BICYCLE GLOBAL MARKET POTENTIAL



TRL : 5 - Validation in real environment



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