BACKGROUND

THREE MAJOR BARRIERS TO ELECTRIC VEHICLES' ADOPTION

- 1. CRITICAL MINERAL SUPPLY / SCARCITY OF RAW MATERIALS
- 2. LACK AND RELIABILITY OF CHARGING INFRASTRUCTURES
- 3. AFFORDABILITY / HIGH BATTERY PRODUCTION COSTS

TOYOTA'S 1:6:90 RULE

THE SAME MATERIALS NEEDED TO MAKE ONLY ONE BATTERY
ELECTRIC VEHICLE, COULD INSTEAD BE USED TO MAKE SIX
PLUG-IN HYBRID OR NINETY HYBRID ELECTRIC VEICHLES!

PROBLEM

HYBRID POWERTRAINS HAVE MANY ADVANTAGES

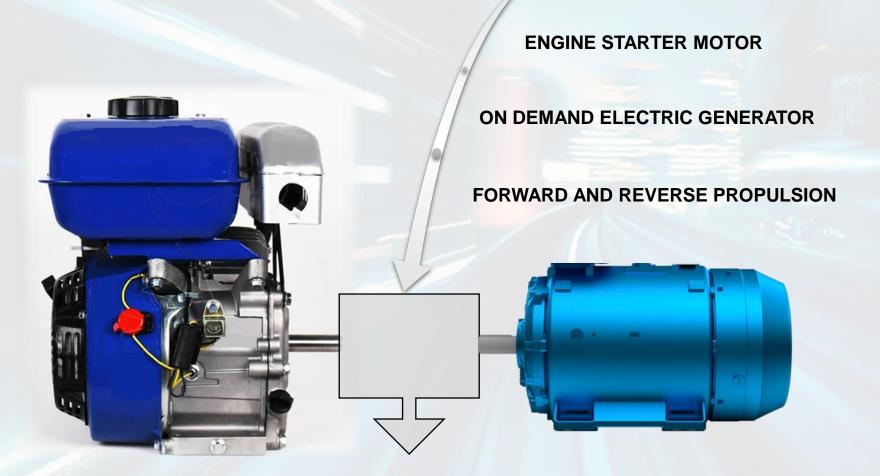
- 1. HIGHER FUEL EFFICIENCY AND MILEAGE OF AN ICE
- NO RANGE ANXIETY AND LOWER COSTS OF AN EV
- 3. POTENTIAL USE AS AN ELECTRIC GENERATOR

VERY CONVENIENT FOR OFF-ROAD AND MARINE APPLICATIONS!

BUT THERE ARE NO SIMPLE, COMPACT AND INEXPENSIVE
TECHNOLOGIES TAILORED FOR THESE APPLICATIONS

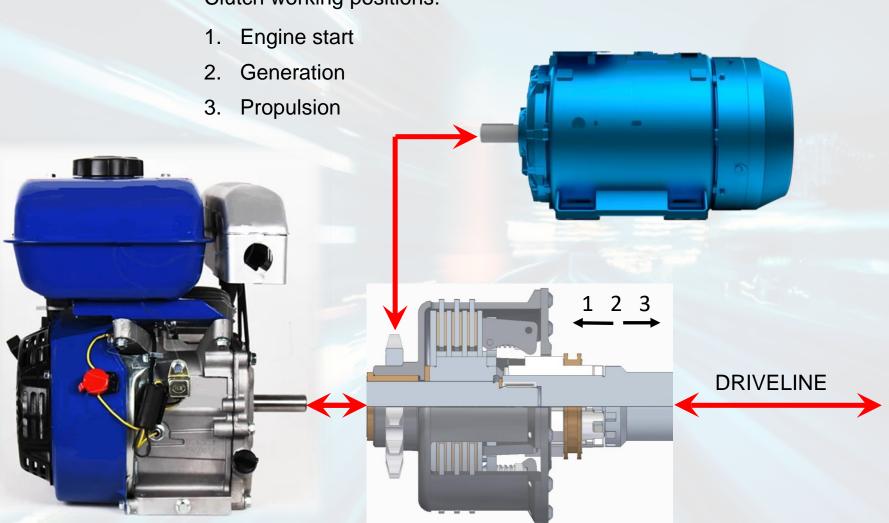
SOLUTION

MOST ECONOMICAL AND VERSATILE GEARLESS PARALLEL
HYBRID POWERTRAIN WITH ON DEMAND ELECTRIC GENERATOR

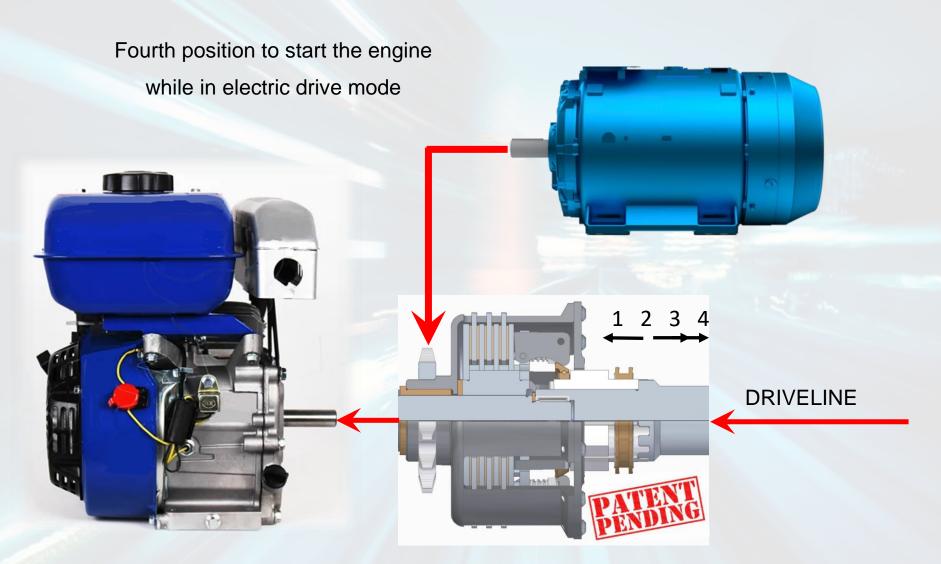


PATENTED DESIGN





DESIGN ADVANCEMENTS



TECHNOLOGY ROADMAP

2020

- IDEA AND CONCEPT DEVELOPMENT (TRL 1 & 2)
- PROVISIONAL PATENT APPLICATION

2021

- DESIGN AND BUILT OF THE FIRST FUNCTIONAL PROTOTYPE (TRL 3)
- FIRST PATENT APPLICATION

2022

- DESIGN AND BUILT OF A SECOND MORE ADAVANCED PROTOTYPE (TRL 4)
- GRANTED US PAT NO. 11,505,054 B2

2023

- CONTROL SYSTEM MODELING AND DEVELOPMENT (TRL 5)
- ADDITIONAL PROVISIONAL PATENT APPLICATIONS

2024

- CONTROL SYSTEM INTEGRATION IN A MINIMUM VIABLE PRODUCT (TRL 6)
- MINIMUM VIABLE PRODUCT TESTING AND DEMONSTRATION (TRL 7)

MINIMUM VIABLE PRODUCT

GEARLESS ATV / GENERATOR COMBO UNIT WITH A SINGLE ELECTRIC MOTOR
TO START THE ENGINE, RECHARGE THE BATTERY AND REVERSE THE MOTION!

