

# The Air Suspension Wheels From GACW Inc.

Licensing and Commercialization Partner: IIPRD

Email: [Commercialization@iiprd.com](mailto:Commercialization@iiprd.com)

## Problems with Existing Technology

### Tire Burnout



## Problems with Existing Technology

# Disbalancing



## Problems with Existing Technology

Environment  
Pollution

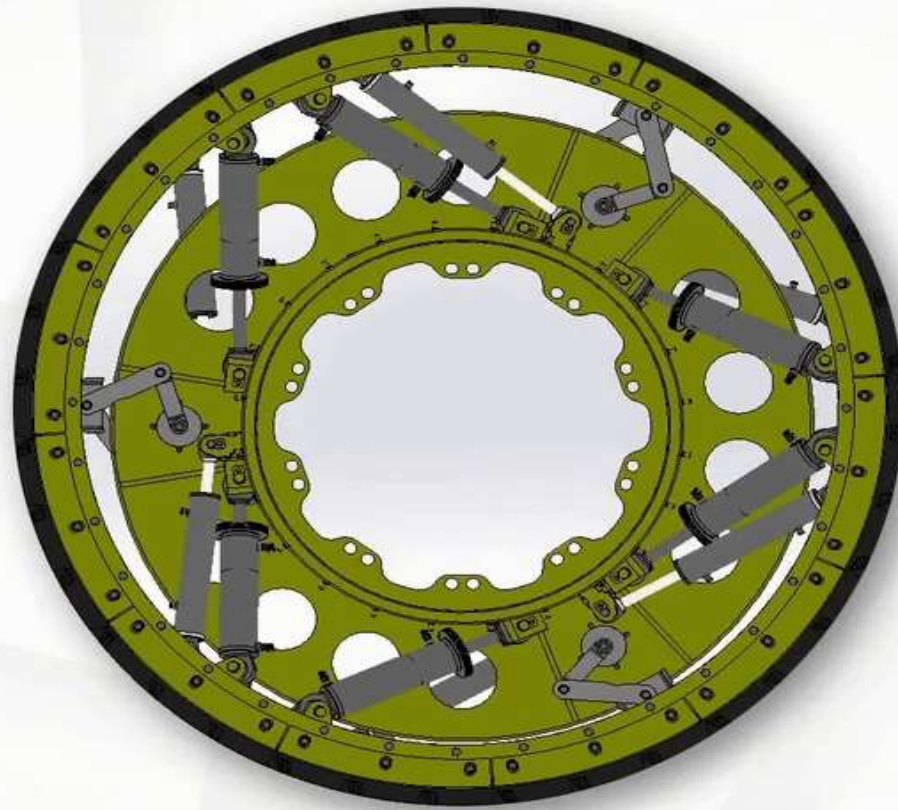


## Problems with Existing Technology

Higher Maintenance Cost



# Our Product



Images used in this video show R&D prototypes. Air Suspension Wheels will soon be available on the market.



# Exemplary Highlights





## Scalability and Opportunities

### GACW Offers:

- License deal per industry which includes: OTR for mining, construction, agriculture, forestry, over-the-road cars, buses & trucks, bicycles, wheelchairs, rickshas, racers, and more
- Licenses may be exclusive for a territory and/or industry or a combination of both

### Ideal or Potential Partners:

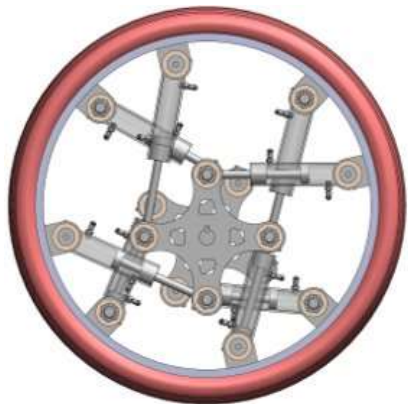
- Vehicle OEM
- Chassis OEM
- Rim/tire OEM
- Tire re-treaders
- Service companies



Wheelchair or Bicycle Design



Applied Design



Motorcycle Design

Depending on the industry and the interested party, GACW is open for lumpsum or a down payment and royalty structure

# Issued Patents

61161	WHEEL ASSEMBLY INCLUDING DISK DEFINING A MECHANICAL STOP AND RELATED METHODS Inventors: Zoltan Kemeny; Tom Nepl Priority: Provisional 62/764,138 filed 7/19/2018	16/237,478	12-31-2018	US-2020-0023680-A1	01-23-2020	11,173,744	16-11-21
61161_CIP1	WHEEL ASSEMBLY INCLUDING OUTER RIM COUPLED RING DEFINING A MECHANICAL STOP AND RELATED METHODS Inventors: Zoltan Kemeny; Tom Nepl Priority: CIP of 16/237,478 filed 12/31/2018 which claims priority to Provisional 62/764,138 filed 7/19/2018	16/383,169	04-12-2019	US-2020-0023682-A1	01-23-2020	10,987,971	27-04-21
61161_CIP2	WHEEL ASSEMBLY INCLUDING INNER AND OUTER RIM COUPLED RINGS DEFINING A MECHANICAL STOP AND RELATED METHODS Inventors: Zoltan Kemeny; Tom Nepl Priority: CIP of 16/237,478 filed 12/31/2018 which claims priority to Provisional 62/764,138 filed 7/19/2018	16/383,204	04-12-2019	US-2020-0023679-A1	01-23-2020	10,987,970	27-04-21
61161_CIP3	WHEEL ASSEMBLY INCLUDING INNER AND OUTER RIM COUPLED HYDRAULIC DAMPERS AND RELATED METHODS  Inventor: Zoltan Kemeny Priority: CIP of 16/383,169 (61161_CIP1) which is a CIP of 16/237,478 (61161) filed 12/31/2018 which claims priority to Provisional 62/764,138 filed	16/596,302	10-08-2019	US-2020-0114682-A1	04-16-2020	11,135,871	05-10-21
61162	WHEEL ASSEMBLY INCLUDING LATERAL STOPS AND RELATED METHODS Inventor: Zoltan Kemeny Priority: Provisional 62/764,138 filed 7/19/2018	16/237,426	12-31-2018	US-2020-0023676-A1	01-23-2020	10,987,969	27-04-21

## About GACW



### Prof. Zoltan Kemeny, PhD.

- Background/Diplomas
  - Structural Dynamics Engineering
  - Seismology
  - Architecture
- >160 written and co-written patents

### Air Suspension Wheel (ASW)

- *Non-pneumatic mechanical wheel*
- No size limit
- Cut resistant
- No speed limit
- Can be retrofitted
- Replaces rim & tire
- Replaceable tread
- Unlimited applications
- Six patent granted, 52 pending
- Two peer reviewed white papers published
- <https://zoltankemeny.academia.edu/research>