PURPOSE

DEVELOP NEXT GENERATION FIREARMS FOR ENHANCED SECURITY

Efficient, cost effective & technologically advanced automatic firearms & machine guns based on ‘patent’ driven technology

Patent Application No : 202421037684
Country : India
Filed At : Indian Patent office

Problems

Traditional Firearms and machine guns are driven by chemical propellant technology. Which are inherited to serious problems as mentioned:

High operating cost

High ammunition cost increases overall operating cost of weapon in intense trainings and combat.

High recoil & noise

Firearm Recoil and noise resulted during the firing creates serious issues for weapon operators.

Heating & degadation of barrel

Intense firing cycles results in barrel heating and rifling degradation over time.

Limitations in ground performance

High recoil, noise and heating issues reduces the tactical performance in high profile missions

Solution

The solution we have created is operated on utility patent based electrically driven circular projectile accelerator system. This product solved some problems in existing firearms as below:

Lower operating cost

The ammunition used here contains only bullet as projectile and saves about 60% cost on propellant, primer and casing in cartridge.

recoil & noise elimination

The Firearm recoil & noise is eliminated as the propellant in ammunition causing it is totally eliminated in our product.

Heating & degradation of barrel

The absence of propellant eliminates the heating and degradation issues created by propellant gases in existing weapons.

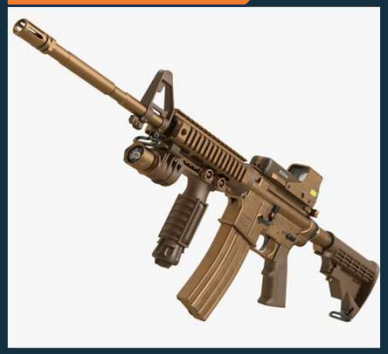
Enhancement in tactical performance

Eliminated noise, recoil and heating issues increases the tactical performance in high profile missions.

Standard use cases

These are the use cases in which electrically driven circular projectile system can bring revolution with its advantages.

Assault rifle



Low recoil, Low ammo cost , Short barrel, Low Heating

Submachine gun

Low recoil, enhanced range, lighter submachine gun

Heavy duty machine gun

Light weight, short barrel heavy machine gun

UAV mounted gun

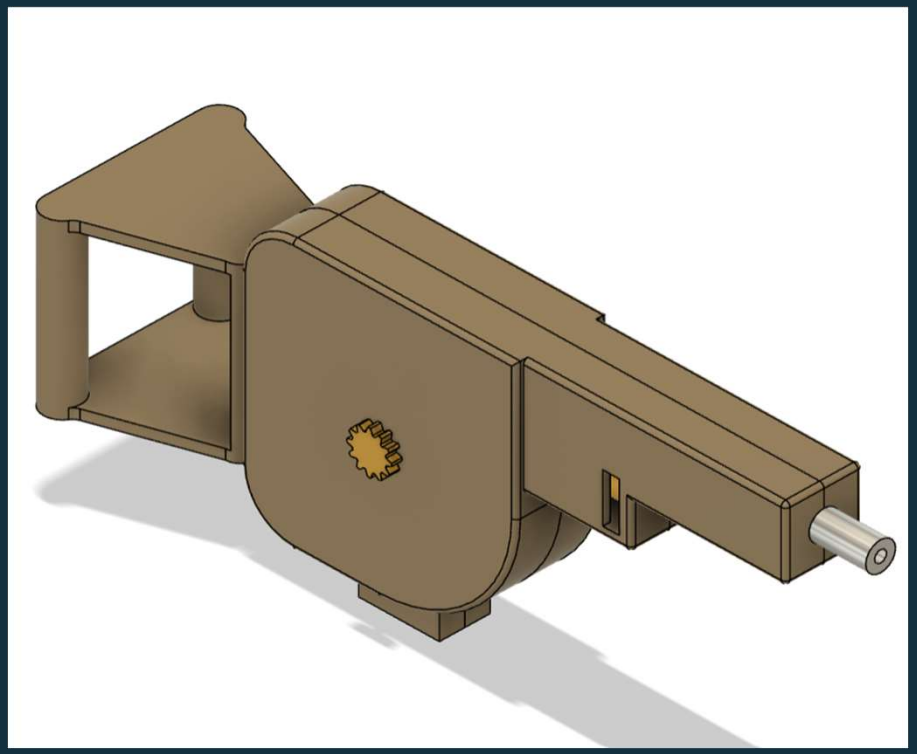
Light, less recoil guns could be operated from UAVs smoothly.

Gatling gun

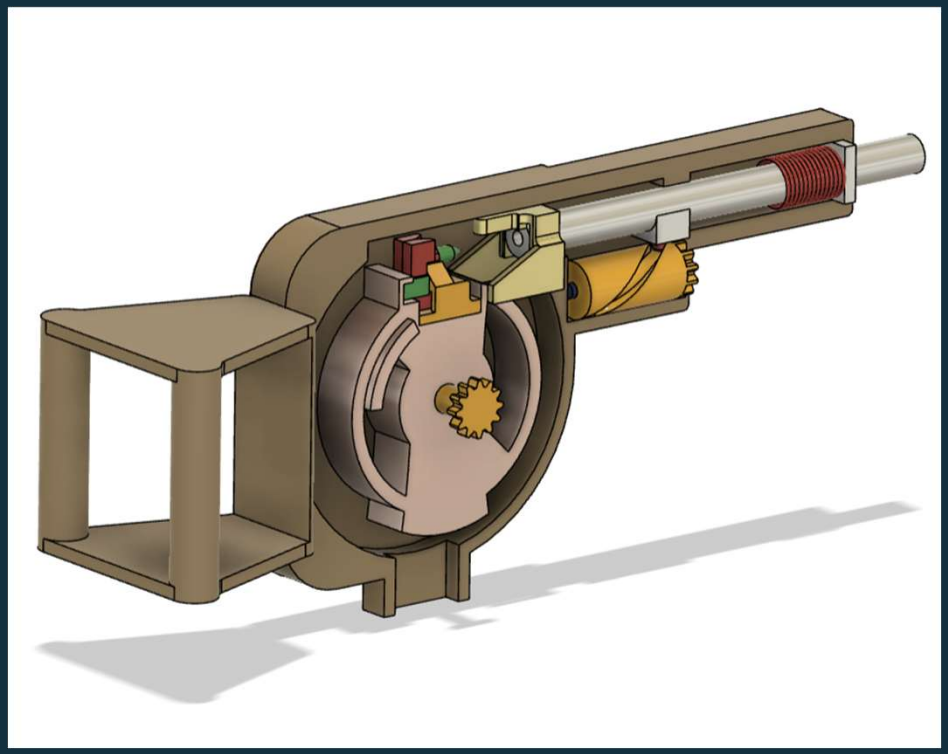
Single barreled high firing rate guns could replace gatling guns.

Principle Design of technology

The design below is for purpose of demonstrating the small machine gun



External view



Internal view

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Why now ?

1.

Defense forces are rapidly modernizing around the world. High performance and efficient firearms demand is more than ever in emerging defense market.

2.

Our product provides several key benefits which enhances operational capabilities of firearm in it's different segment.

3.

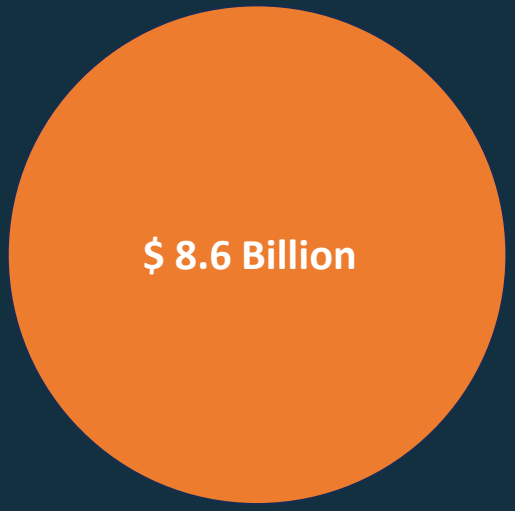
Advanced manufacturing and material research allows to bring such complicated and efficient technology to life.

2023 Market size
$ 8.6 Billion
(estimated)

2031 Market size
$ 13.2 Billion
(estimated)

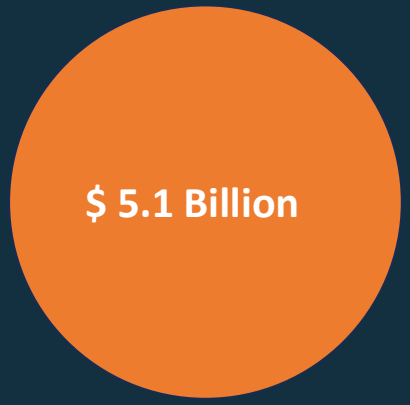
*Market size is estimated, might differ according to different sources.

Market sizing



TAM
(Total available market)

- Rifles, machineguns, pistol, shotgun, sub-machinegun
- North America, Europe, Asia pacific, Latin America, Middle East & Africa



SAM
(Serviceable available market)

- Rifles, machineguns, sub-machinegun,
- North America, Europe, India, Japan, Australia, South East Asia, Latin America, Middle East & Africa

SOM
(Serviceable obtainable market)

- Rifles, machineguns, sub-machinegun
- North America, Europe, India, Japan, Australia, South East Asia, Latin America, Middle East

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