



Motorcycle Innovation IP Claims:

**motorcycle
innovation**

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- Pure triangulation = Increased strength, increased stability and safety.
- Light weight construction - can handle loads hundreds of times its own weight = lower energy consumption, better control and increased stability and safety
- Disperses shock loads from front wheel in shorter distance to machine Centre Of Gravity (COG) = better control and increased stability and safety
- Lower COG of machine = increased stability and safety
- No Horizontal or lateral flex unless designed into the system = increased stability and safety
- Adjustable rake and trail = advantageous changes to steering geometry - light and responsive steering.
- Avoids loss of suspension travel under hard / emergency braking = better control and increased stability and safety
- Avoids changes to geometry under braking - Constant rake and trail through suspension travel = better control and increased stability and safety
- Adjustable pro-dive and ant-dive capabilities = better control and increased stability and safety
- No King pin loads = reduced oscillation harmonics - increased stability and safety
- Better stability in line and in corners = increased control and safety
- No ground clearance issues in cornering = better control and increased stability and safety
- Can be made lighter and stronger using carbon fibre and future technologies = lower energy consumption and increased stability and safety
- Separates steering from suspension = Smaller steering torque from rider = better control and increased stability and safety

- Braking forces kept at contact patch of wheel = better control and increased stability and safety
- Shorter wheel base = quicker turning - better control with increased stability and safety
- Use of past best practice - uses double wishbone suspension as in automobile - over 100 years of proven development.
- Can be used on any fuel type of motorcycle - Petrol, Electric, Future etc.
- Preferred embodiment pivots suspension from machine COG.
- Can employ front hub engine
- Can employ electronic changeable/adjustable rake and trail and pro-dive and anti-dive capabilities on the fly = quicker turning, better control with increased stability and safety
- Eliminates bump steer = better control and increased stability and safety
- Aerodynamic attributes can be designed into front end steering and suspension system = better control and increased stability and safety
- Cost effective manufacturing process - incorporating bolt together CNC machined components of certified materials.
- Retains classic look of previous motorcycles = Favourable to conservative motorcycle public.