

Figure 19.a: DAKOROMAN MULTISPEED GEARED CRANKS WITH SPROCKETS AND CHAIN

1- plates/ discs, 2- chain, 3- small sprocket, 4, 5, 6, 7 – sprockets, connected together with central sprocket 3 via the chain 2. Sprockets 4,5,6,7 rotate the same way, central sprocket 3 rotates in opposite sense.

O1, O2, O3, O4, O5 are centers of respective sprockets. Theoretical circle intersects the centers of each sprocket, at same distance $R = O1-O2 = O1-O3 = O1-O4 = O1-O5$.

Figure 19.b: DAKOROMAN MULTISPEED GEARED CRANKS

A central gear 2 is meshing with tangential gears 3,4,5,6, all between two Dakoroman Plates/ sandwich type.

How they work:

Figures 19.a, 19.b are similar with figures 19 and 20. The rider can use his legs, moving the "normal" crank on one side. On the other side is Dakoroman Plate/ with 2,3,4 gears or sprockets. With the other leg, the rider must change the position of Dakoroman Long Pedal and Pedal' axle into the center O1,O2,O3,O4, changing the gears/ sprockets, in fact the transmission ratio.

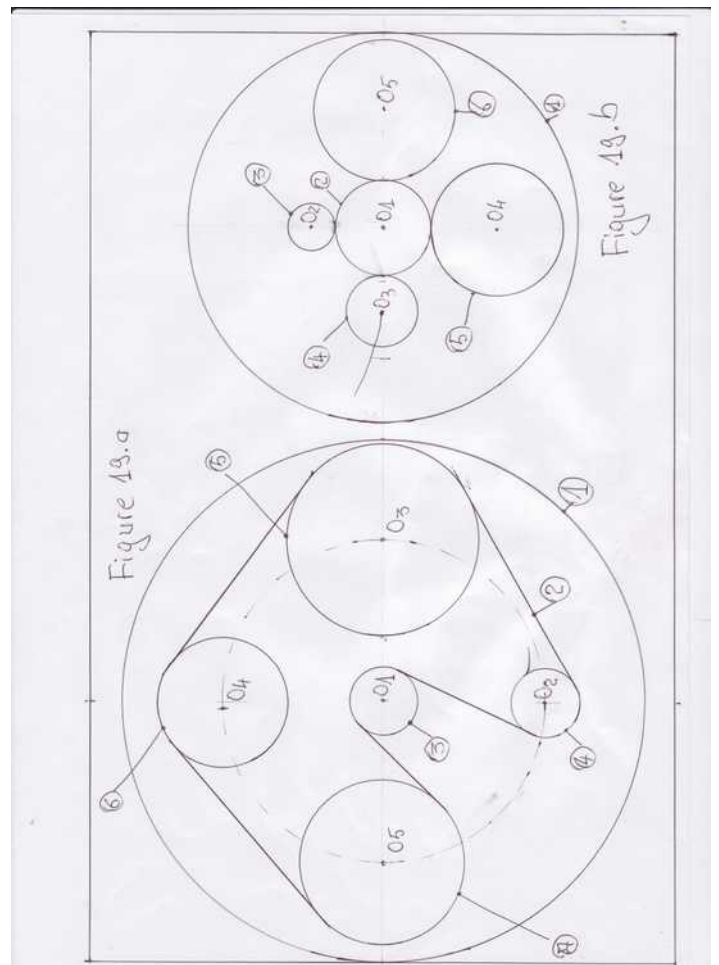
This is just one of the solutions, any other ways are possible.

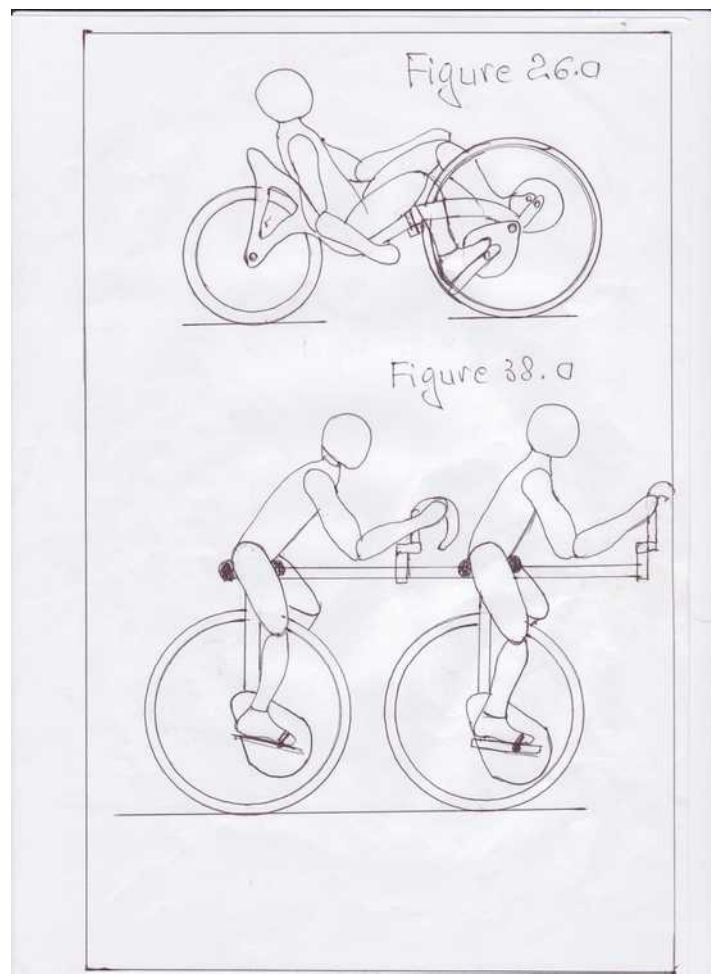
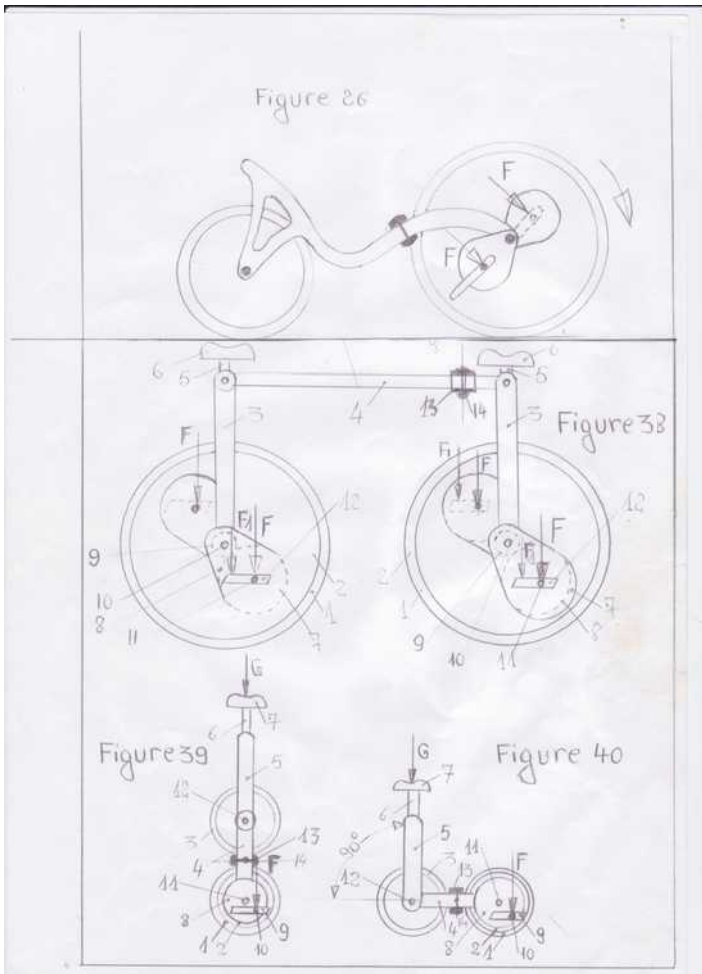
Figures 26, 26.a: DAKOROMAN RECUMBENT BICYCLE

The ride pushes Dakoroman long pedals/ Dakoroman Geared Cranks/ Dakoroman Drive System, the front wheel is between the legs, rider's positions can be changed/ adjusted between figure 26.a and figure 42..

Figures 38, 38.a : DAKOROMAN TANDEM BICYCLES

1-rim/tyre, 2-transparent disc, 3-unicycle frames, 4- frame's connector 5- stem, 6- saddle, 7- Dakoroman plated cranks, 8- big gears, 9- small gears, 10- central axles, 11- pedal axles, 12- Dakoroman long plates





13- rotator, mounted on frames connector 4, allows steering/ rotation of Dakoroman Geared Unicycle/ front wheel around axle/ axis 14.
 14- rotator's axle/ axis.
 Special detachable connectors/ components can be used.
 The riders can stay back to back/ mirror/ recumbent positions.

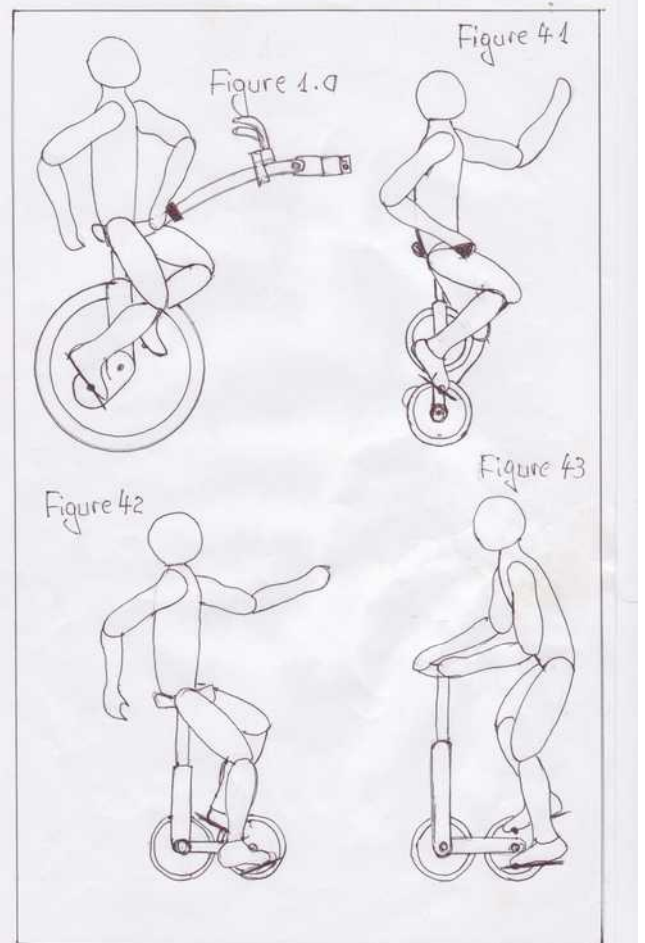
HOW IT WORKS: two Dakoroman Geared Unicyles are kept together by ON/ OFF frame connector 4/ rotator 13, creating a folding Dakoroman Tandem Unicycle / Bicycle; other tandem components can be easily mounted or taken off.

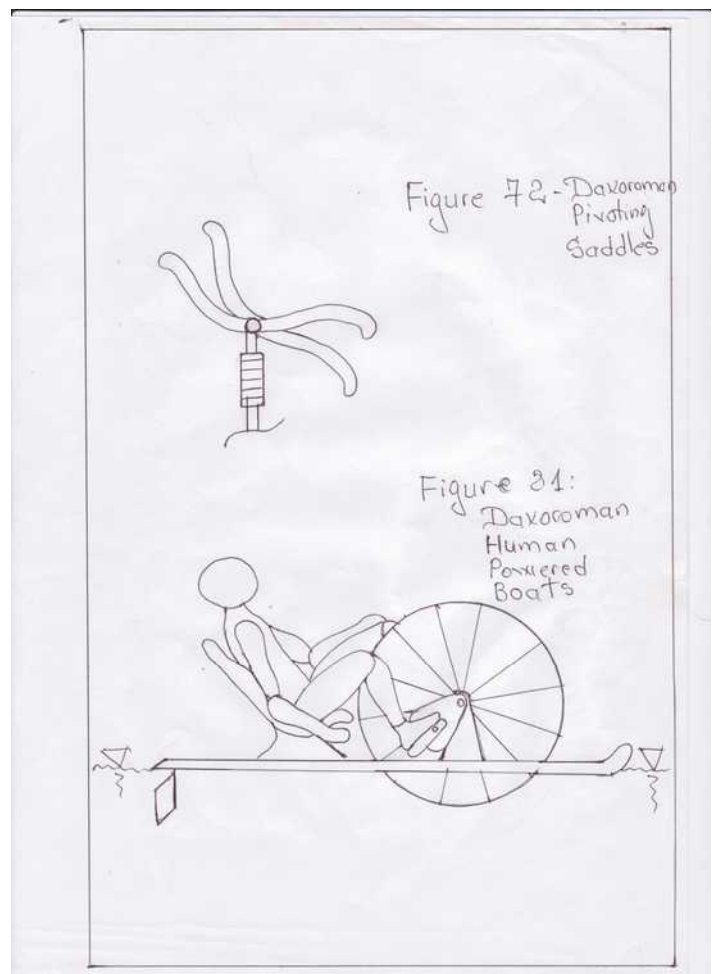
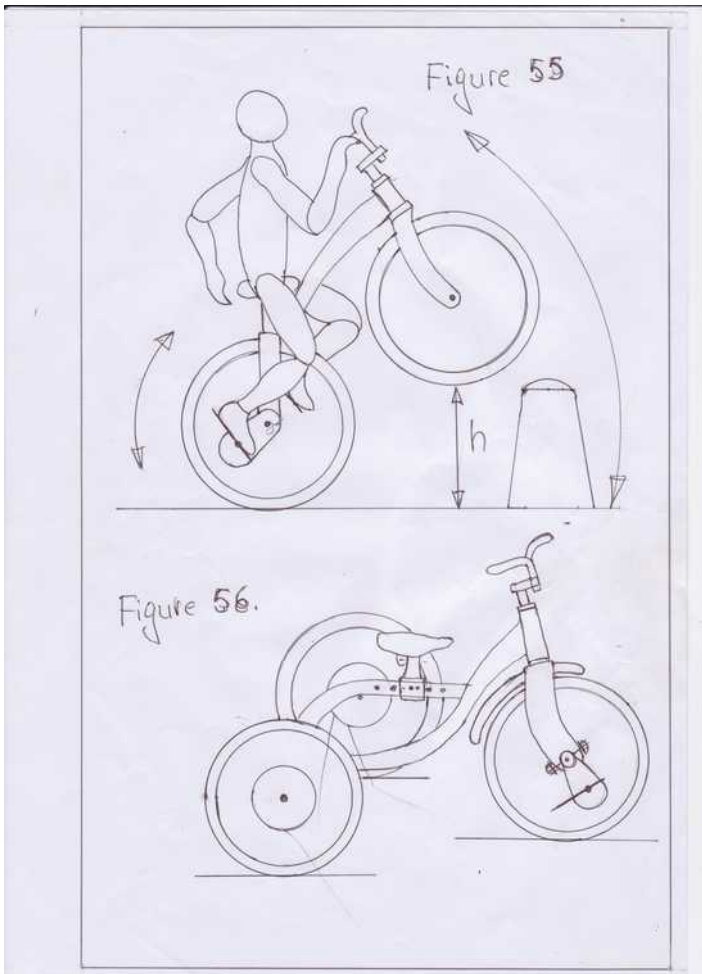
Figures 39 and 40 : DAKOROMAN FOLDING UNICYCLE, BMX, BICYCLE CHAIR, SCOOTER

1- rim/ tyre, 2- disc, 3- second wheel's tyre/ disc, 4- frames connector, between Dakoroman Geared Unicycle and second wheel's frame 5.
 5- second wheel's frame, supporting stem 6 and saddle 7; 6- stem
 7- saddle, 8- Dakoroman plated cranks/ discs, 9- Dakoroman long pedals, 10- pedal axles, 11- Dakoroman Geared Unicycle' central axle
 12-second wheel's central axle, 13-rotator, ON/ OFF positions, allows steering of Dakoroman Geared Unicycle wheel, around axle/ axis 14.

HOW IT WORKS: figure 39 shows a Dakoroman Geared Unit and a second wheel kept inline/ vertical by frames and frame connector in a still/ common body; it can be ridden as a Dakoroman fast unicycle.
 From figure 40: by rotating frame 5/ stem 6/ saddle 7 clockwise, 90 degrees around central axle 12 and keeping them locked by pins, the system changes from inline/ vertical type= into L type, see figure 41.
 Both second wheel 3 and Dakoroman Geared Unit wheel touch the riding surface; frame 5/ stem 6/ saddle 7 are kept still/ locked in vertical position by pins between frame 5 and frames connector 4.

The release/ open of rotator's pins allows Dakoroman Geared Unit to rotate/ steer around rotator's axle/ axis 14, horizontal plane.
 figure 42: rider sits on saddle 7, pushing with force G, his/ her legs/ shoes pushing Dakoroman long pedals 9, at the same time steering Dakoroman Geared Unit/ wheel, creating a Dakoroman Chair/ Throne.





If only two simple small wheels are used, Dakoroman Folding System can be used as Dakoroman Chair or Dakoroman Scooter, one of the legs pushing/ touching the riding surface.

Also, the rider can sit on Dakoroman Long pedals 9, with the hands holding/ steering/ rotating the second wheel 3/ frame 5/ stem 6/ saddle 7 around axle/ axis 14; a Dakoroman BMX was created/see figure 43. Dakoroman Folding Unicycle/ BMX/ Bicycle Chair/ Scooter, also called the "4 x 1" can use any type of Dakoroman HPV to generate the necessary energy; compact designs, interchangeable components, folding, transportable, very low Q factor are desirable. Dakoroman concepts are ideal to create revolutionary products.

APPLICATIONS OF DAKOROMAN DRIVE SYSTEMS FOR DIFFERENT CYCLE TYPES

1 - DAKOROMAN UNICYCLES

Unless you are a "purist", the unicycles are very slow for riding/ competing against other hpv's;

I have designed Dakoroman Geared Cranks to overcome all these problems, in fact they can be attached/ retrofitted to any unicycle types (see figures 1, 2, 3, 15, 16), simple replace the "normal" cranks.

However, customized frames/ hubs/ Dakoroman Geared Cranks with freewheels, allowing the switch from 1:1 to X: 1 and reverse during the ride, also ON/ OFF freewheel system, etc.

Dakoroman Geared Unicycles can use very small wheels, even D= 8/ 10/ 15 cm (see figure 15), thus Dakoroman Mini Unicycles. Dakoroman Geared Cranks/ Wheel/ Drive Systems are MODULAR/ STANDARDIZED UNITS, can be used for many different HPV's.

2 - DAKOROMAN BICYCLES

Any bicycles with small/ big wheels can benefit from Dakoroman Systems, some more than others.

Dakoroman Bicycles: most of the rider's weight is on the back wheel's central axle/ hub/ Dakoroman Geared Cranks, so the frame is not stressed as much as the "normal" bicycles; also, the bicycle frame and front wheel can move/ rotate/ pivot around the back wheel's central axle, the bicycle becoming an unicycle with extension, another degree of freedom gain/ see figure 55, good for racing, stunts, trial.

NOTE: the pivoting frame/ front wheel movement/ rotation can be used for motorcycles as well; when the cycle is driven fast towards the obstacle, just prior of hitting it raise the front wheel/ frame, then jump with the back wheel.

The front and back wheels can be very close to each other, so once the front wheel "goes through", the back wheel will roll as well. The saddle/ stem can make common body with the rest of the frame (between the wheels + front wheel), or can be used just to sit on it, between the rider's bum and back wheel's central axle/ on bearings. From the manufacturing perspective, Dakoroman Geared Cranks/ Wheels/ Units/ Modules allow the creation of "standard size" products cheaper/ less expensive designs/ manufacturing operations.

Construction of 100% COMPOSITES/ PLASTIC BICYCLES/ HPV,

developing new technologies and becoming market leader.

See *Itera plastic bicycle* from Sweden in '80's: the problem they had was the frame, not able to sustain the huge stresses.

Wide range of Dakoroman Small Wheels Fast Bicycles = Dakoroman Mini Bicycles can be produced, having strong/ resistant small wheels, see figures 15, 16, 19, 19.a, 19.b, 20.

BMX- it is time to develop/ revolutionize even more the BMX, to really look like motor-cross, not like moving pipes/ metallic skeletons, revolutionary, unique frames similar with the TREK Y FRAMES, or the

older models of SOFTRIDE Bicycles/ beam technology shock absorbers, adapted to BMX dimensions; together with the compact Dakoroman Module/ Wheel/ Pivoting System.

The result should be a great feeling/ speed/ liberation, a new cult/ fans. BMX gear ratios = see figures 17.a, 17.b, 17.c, 19, 19.a, 19.b, 20, customized BMX for different uses.

2- DAKOROMAN RECUMBENTS, TRICYCLES

Designed for kids/ children/ adults, DAKOROMAN TRICYCLES have a Dakoroman Geared Cranks Fast Wheel/ Module between the rider's legs. Using two back wheels = tricycle, using only one back wheel = recumbent/ bicycle; an interchangeable convertible wheel system. See www.freedomrider.com for "Body Lean Steering" technology. For small kids bicycles type, there is no need for supporting small wheels, the front wheel/ active and the two back wheels are the same size, able to convert from tricycle/ bicycle/ recumbent.

4- DAKOROMAN TANDEM - fig. 38, 38.a, or back to back riders.

5- DAKOROMAN FOLDING BICYCLES/HPV's

Folding bicycles: the only reason for the creation of folding bicycles is to transport/ carry them; unfortunately, there is a physical limitation how much a bicycle can be folded, exactly because of the classic transmission system/ drive system, between the wheels, it is there, occupying a volume space, it can not be ignored.

Apart from the "4 X 1" Dakoroman Folding Unicycle/ BMX/ Bicycle Chair/ Scooter (or "6x1", if we add functions like Recumbent and Tandem), presented in figures 39, 40, 41, 42, 43, HPV's/ any products based on Dakoroman Modules are designed to fold fast, portable, compact, resistant, light, strong, sturdy, interchangeable standard Dakoroman Components, very low Q- factor, cheaper, etc.

The folding bicycles can be disguised in modern/ techno cases, as new fashionable/ generation of designs/ products.

A suitcase for example, beautiful exterior, even an advertising area.

Put one wheel over the other and becomes a box hat/ a cylinder with diameter just a little bigger than the wheel's size, or put the wheels one near the other and have a thin layer; both designs provided with straps, on the shoulders, like tennis rackets.

They can be taken anywhere: street, airplanes/ office/ as hand luggage British Airways - One bag; 56 cm x 45(other companies have 36 cm instead of 45 cm) x 25 cm .

So, the max. wheel diameter D = 36 to 45 cm, ideal for us, humans.

6- Dakoroman Hybrid HPV's,

mixtures like two unicycles= tandem, back wheel=unicycle/ front wheel=recumbent, three unicycles, two inline=bicycle and another one attached on one side, X-numbers of unicycles= train type, with a special steering system, swinger, etc.

7- Dakoroman Pivoting Saddles: see figure 72

Mirror type left/ right bi- saddles, supporting more than just the bones, following the shape of human body/ back; no sensitive areas are in contact with the bi-saddle, can be adjusted in any direction, convertibility bi-saddle / seat, shocks absorbing system provided.

8- Dakoroman Human Powered Boats- HPB/ see figure 81

See www.humanpoweredboats.com

Dakoroman Drive System for boats makes a paddle wheel between the operator's legs rotate very fast.

It is like a reversed unicycle with the frame connected still on the special boat's body; very compact, thin/ not wide, in comparison with the classical pedal boats, designed for different types of boats.

COMMENTS : ...Dear HPV's lovers,.....

These "materials" represent the initial sketches/ descriptions of DAKOROMAN DRIVE SYSTEM and APPLICATION. Some of them experienced improvements.

Note the various applications of Dakoroman Drive System for hpv's, also the originality, obvious designs, easy to distinguish among other drive systems/ applications, interchangeability, low Q- factor, etc, etc.

In short, ideal concepts/ many products; properly developed/ protected, these projects/ products are very powerful tools to those mastering them intelligently, based on trust, respect, good will.

Dakoroman Geared Cranks/ Dakoroman Drive Systems/ Applications should look like beautiful pieces of engineering jewelries.

I have created them investing a lot of energy/ love/ passion/ time, they should bring joy/ prosperity and enhance our lives.

Ideal as marketing tools, very eye catching, self advertising also.

Indeed it is all about components.

Of course they can be developed even further.

I only sent you initial drawings/ sketches just to show you some concepts.

I deserve recognition for my creations and want to be treated with full respect; that's what I believe.

In fact, if you analyze how many new/ unique products can be created as owners/ designer/ manufacturer/ an **absolute monopoly**, the "next catalogs" will be much thicker.

SUSTAINABLE TRANSPORT/ PORTABLE/ CONVERTIBLE/ COMPACT / FAST/ FOLDING/ NON-EXPENSIVE HPV's

A new, modern trend is becoming fashion: sustainable transportation. Somebody said that God was created by the people living in desert, as ultimate hope, to survive in those harsh conditions.

Leisure HPV's products, have been invented/ redefined by the people without strong connections with the nature, in order to compensate the loss of a very important human sense/ working together with the nature, being part of it.

The same fat/ lazy bureaucrats / think tank industry, who gave humanity so many "healthy" concepts/ products/ see GM food, drugs, psychedelic freedom, free sex/ yes, you have to pay for it, totally opposite to marriage, an invention where you do not have to pay.

So, the good smart bourgeoisie, chubby guys scratched their bald heads and found nothing there, then scratched "in the front" and definitely nothing there, than their backs; finally, a huge/ thunder sound came alive, a clear sign of "saving the world" phenomenon: it was called SUSTAINABLE ENERGY, especially created for the ordinary humans to enjoy life at maxim.

Invariable, the HPV's/ Human Powered Vehicles have to be involved, the Greens, Tree Huggers, poets, corporations, politicians, trashy mass media, special organizations, etc, put their shoulders together to explain to the stupid "ordinary humans" how many wheels they need to smell better the new intestine creation= sustainable energy, it should be done as in waiting for the SAVIOUR.

Of course, there is nothing wrong with sustainable energy as a concept, but not with the meaning of think tank/ in this context is not compatible with new technologies, social- economic developments, real freedom, education, normal life, you have to be continuously "consumed", another tool of controlling the people.

The rate of participation of the people must be 100%, therefore more sophisticated brainwashing programs: the term "VOLUNTEER" was invented and glorified, the new suckers are STARS.

"AND THE WINNER IS... SYDI - NEEYY" - YEAR 2000?

When the IOC Chief made the famous announcement (insiders say he had special spelling lessons just to deliver the big message in perfect Oxford-English; I met Aussies with wet eyes saying mate, if Juanonio has done it, the word impossible should be erased/ sacked/ ashamed from any dictionary, very few people realized the implications for the "Chosen Olympic City", in The Rocks, Downtown Sydney, wild celebrations followed, sensing history written at present tense, general euphoria, pride to be Australians, living in the most beautiful city in the world - Sydney.

Sydney Olympics 2000 was a fantastic success, the Australians paid billions for the pleasure to host it, but little was said about the "behind the scene" running of the show, the "Volunteer's Army".

Tens of thousands of Australian citizens were involved in this scheme, convinced that the rest of the world will appreciate our good nature, honesty, good will, mateship; absolutely right, but volunteering is noble only for those who appreciate/ understand this idea / concept, also limited within reasonable time frames.

In short, it was the biggest hoax, the organizers/ corporations/ sponsors used it only to maximize their profits, the naive/ trusty volunteers were not paid any money, a "biggies" dream, working intense to create the " Perfect Society: a World of Volunteers ".

Chief Olympic Volunteer was awarded a gold medal - employed later to organise the Greek Volunteers at Athens Olympics 2004), Juanonio - gold for solecism?, Sydney and Athens Olympics were declared the best ever Olympic Games in history.

Sydney volunteers/ heroes were fairly awarded for their unpaid? effort with an official parade (cancelled, sorry), memorabilia, one volunteer jersey, insignias, koalas and kangaroos manufactured overseas (our own factories have been destroyed/ transformed in

blocks/ flats =smart economy?|=importing containers filled with cheap/ slave labor widgets, in return exporting our healthy, reach air=empty containers), trashy media allocating full pages about the "heroic volunteers", one visionary minister promised to expand the scheme to any other competitions in the future, happy people everywhere, the Olympic Investors are still happy, what a pity the Olympics are four years apart, let's do something about that.

Despite some jealous critics saying it was a joke, the good message took off and is very much used in advertising (especially by the banks/ insurance/ lenders): "life is not about money, it's all about memories, take/ keep your memories, we take over your money".

A fantastic competition, involving corporations and governments/ working for corporations takes place every four years to organize the Olympics, "nests" to multiply their eggs, collecting huge profits, no Olympic City made any profits ever, the people had to pay all the billions, unbalancing the economy and create deep recession, to "minimize the damage" the potential organizers bring "lean and mean" plans, attracting the investors, hoping that they can bask in five weeks of fame forever.

It is the same with SUSTAINABLE ENERGY, the people are encouraged to give up their cars and try HPV's/ that might work for some countries with flat land, not universal solution.

The pushing on of this SUSTAINABLE ENERGY by the trashy mass media and sponsors become so aggressive/ advertised as EXTREME SPORTS, that the most vulnerable people in society/ children/ brainless teenagers, brought in this business become little monsters/ just watch some of the HPV's Forums/ YOU TUBE.

In 2008 I've posted in Unicyclist.com an article about some of the new smart characters created as a side effect of dumb policies, aimed to destroy generations and the future of our society, transforming them in "robots", little monkey imitating electronic games, cretinism elevated/ presented as noble fashion/ way of success in life.

Ultimate XXX Geared Unicycle - The Legend

Happy New Year!

THE LEGEND - true story/ adapted

A middle age gentleman was traveling in a train full of people. He was dressed in a clean-cut military type uniform, his face showing a terrible scar.

His steely eyes were cutting through the moving humans when a young man stopped just in front of him; rings in his nose, ears, all the fingers, dressed in many colored, dirty, smelly clothes, a thick smoke coming out of his mouth.

Near his body was the Ultimax XXX Unicycle.

The soldier/ officer looked at the young sports junkie and had a daytime dream: the young dirty man/ piece of nothing holding with one hand his Ultimax XXX Geared Unicycle and with the other hand the hand of the soldier's beloved daughter, booby Bombolina.

I want to marry your daughter, said the young unicyclist loser to her father/ soldier/ officer.

One moment, replied the old man, let me bring my glasses to see you better; once he was inside, he called Special Occasions Group, to deliver at his house a 10 tones block of bricks, job done in an instant, also downloading it on the little unicyclist's head.

Fantastic error: the Ultimax XXX Geared Unicycle, owned by the little unicyclist/ future son in law was 10 tones block of bricks proof. By visualizing all these things, a smile flourished on the officer's face, even his terrible scar was smiling, a frightening picture, reflections of deep, intense, extraordinary life experiences.

What the hell are you starring at me and smile, old man, you have never seen modern/ colorful/ special designed/ customized dresses in your life ? asked the smelly/ junky unicyclist.

Young unicyclist man, I believe that you are about 18- 20 years old.

In those times, when you came on this planet, I was a Freedom

Fighter/ mercenary, going places all over the world to fight the rebels, perpetual enemies who hate us and our way of life because we are free, so my missions were to teach/ implement democracy, how to sell away their children, parents, pedophile+ing, pooft+ ing, Nation/ Country, culture, traditions, spirituality, customs, resources, dobbing each other, etc, and get a good price on the free market, it is called evolution, revolution, dilution, delusion, progress, total/ absolute freedom.

One night, in the jungle, a very powerful feeling/ noble sentiment gave me a state of unbearable stress; everywhere I was going to fight the universal enemies, I had with me a small cage carrying my best/ favorite/ only/ real friend, my mascot, a colorful parrot. He learnt very fast, by himself, how to ride a Mini - Ultimax XXX Geared Unicycle.

Then, the unthinkable happened: imagining/ visualising that my wife/ my girlfriend were with me in the jungle, although in those time I did not have a wife or girlfriend, I lost my concentration/ determination as Freedom Fighter and had an intense, very intimate encounter/ my biggest sin of my life with my best/ the only/ true/ friend/ the parrot, who saved my life many times when the anti-freedom warriors were approaching riding on their ordinary/ non-geared unicycles.

Young unicyclist loser/ piece of crap, I kept my big secret with me all these years; looking at how you are dressed, like a clown- parrot unicyclist, for a moment I believed that you are my forgotten son, now a grown unicyclist man.

If that is the case, I welcome you my son, if not, would you like to meet my beloved daughter, booby Bombolina, I promised her to find a nice gentleman, the future of the Nation, World, to respect/ love/ feed her.

She is 16 now, 130 kg and 156 cm tall, ideal match for you, 190 cm tall.

Sorry, old man, but I am engaged, said the young unicyclist good-for-nothing/ one unicycle-one-vote/ one future- no future, the new,

modern man; he touched his Ultimate XXX Geared Unicycle so tenderly that the old mercenary understood everything. By the time the young unicyclist and nothing else now or in the future disappeared around the corner, the HERO/ lonely wolf/ mercenary/ Freedom Fighter was a broken man: he just missed a chance in a life time, the perfect husband for Bombolina. He bought from the nearest unicycle shop the ULTIMATE XXX GEARED UNICYCLE - THE LEGEND and rode away at high speed for the rest of his life, the unicycle dealer did not tell him how to stop. The HERO was seen ghosting on his THE LEGEND unicycle on William Street / Sydney, at the intersection with Bourke Street, where his beloved Bombolina was working hard, not far away from Kings Cross/ how much?; the HERO felt proud, his daughter had a full time job, life had a meaning in the new world. Also riding the waves in Bondi/ the geared system could be used as a paddle wheel drive system for small human powered boats. After a while, sick and tired to live in the perfect/ absolutely free society where every human being, objects/ thoughts had identical rights, due to the Politically Correct Industry, the HERO has done the best/ greatest thing in his life: he died/ as a Hero/ Freedom Fighter forever. When the experts/ doctors removed his micro-chips from his brain, sexual reproductive organ, shoulders, etc, they notice a strange phenomenon: although the HERO was dead, he become more human now, than he was alive. They had to remove the micro-chips from his Ultimate XXX Geared Unicycle The Legend.

All these things/ rumors grew and grew and grew, inevitably becoming reality/ religion. Now, the new generations of Freedom Fighters were fighting in the name of THE HERO and his ULTIMATE XXX GEARED UNICYCLE - THE LEGEND. This is a true story, if some characters look familiar, then... Good luck!
.....

Inventing new/ simple/ functional/ striking designs/ attractive/ virgin drive systems and applications for bicycles/ HPV's is not possible in infinite numbers, there are physical/ mental limitations.

Dakoroman Drive Systems trigger an avalanche of current/ retrofitted and future products that will change cycles/ HPV's forever.

These materials I sent are only to assess/ analyze the viability of further design/ manufacture/ market/ sell.

If that will be the case, very good, if not, please respect my work.

Either case, please inform me about your opinions/ thoughts/ perspectives/ impressions.

I wish success/ prosperity, health/ happiness to you/ your family.

I hope you will see the big picture, with great rewards.

Thank you very much,

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DAKOROMAN DRIVE SYSTEMS

