What is claimed is:

1. A latching device comprising a springy lock pin, a slider with indentation path for guiding said springy lock pin and a track for said slider, said latching device extends from one of an armature and at least one springy pole to one of a base and a body containing one of a structured relay and an hybrid switch for alternating the state of said slider and said at least one springy pole from latch to release and from release to latch by at least one of a pull of said armature by a voltage rated magnetic coil fed with said rated voltage pulse and a manual push of said slider via a plunger;

said slider maintains one of engaging and disengaging state of at least one first contact with a single throw contact of said at least one springy pole and one of engaging dual throw contact of said at least one springy pole with said at least one first contact and alternately engaging said dual throw contact with at least one second contact by one of each said pull and push during each said latch and release state respectively;

said springy lock pin exerts minute guiding force onto said indentation path and said at least one springy pole reversely propels and pushes said slider by exerting negligible push back force onto said slider to reversely guide said springy lock pin into a latch state and said

slider into one of partial release and full release state thereby enabling said engaging of said contact of at least one springy pole with one of said at least one first contact and said at least one second contact by a magnetic pull force commensurate with said rated voltage pulse needed to actuate said armature including said minute guiding force by said springy lock pin onto said indentation path and a negligible force to move said slider.

2. The latching device according to claim 1, wherein said relay and said hybrid switch are selected from a group comprising single pole single throw (SPST), single pole dual throw (SPDT), dual poles single throw (DPST), dual poles dual throw (DPDT), reversing DPDT, three and more (multi) poles single throw (MPST) and multi poles dual throw (MPDT); and

said state of said one of relay and an hybrid switch is selected from a group comprising switch on, switch over, switch off, switch from cross to straight and switch from straight to cross by engaging said at least one springy pole with said at least one first contact and at least one second contact including no contact respectively.

3. The latching device according to claim 1, wherein the partial release and the full release movement of said at least one springy pole forces micro movement between the contacts of said at least one springy pole and said one of said at least one first contact and said at least one second contact for wiping said contacts from electrical blemishes.

4. The latching device according to claim 1, wherein said one of relay and hybrid switch is structured to maintain said engagement through and after said latching with said one of first and second contact by a springy element selected from a group comprising springy structured pole, a micro switch pole, an elongated pole, a spring driven pole, a springy structured said one of said at least one first contact and said at least one second contact, a spring driven said one of first and second contact and combinations thereof.

5. The latching device according to claim 1 wherein said hybrid switch further including a key for pushing said plunger for enabling said engagement of said at least one springy pole by one of said pull and a push by said key.

6. The latching device according to claim 1, wherein said one of relay and hybrid switch is enclosed in a casing with connection terminals and pins selected from a group comprising surface mount terminals for soldering onto printed circuit board (PCB), at least one of solder pins and terminals for soldering to a PCB, at least one of plug in pins and terminals for insertion into receptacle sockets, at least one of plug in terminals and sockets for mating with reciprocal socket and terminals, at least one of wire terminal and connectors for wire attachment selected from a group comprising screw terminals, push-in wire terminals, crimping terminals, wrapping terminals, solder wire terminals and combinations thereof.

7. The latching device according to claim 1 wherein said at least one springy pole is one of structured by and include a stronger spring for engaging said at least one of first and second contact with a stronger force for handling higher electrical current and said rated voltage pulse is augmented to increase the magnetic pull force generated by said magnetic coil at said rated voltage; and

wherein an associated electrical circuit for feeding said magnetic coil with said rated voltage pulse is augmented with at least one electrical feed source with higher voltage for charging a capacitor for augmenting said rated

voltage pulse by timely injecting discharged higher voltage into said pulse thereby generating a combination pulse comprising an initial feed at the rated voltage followed by said higher voltage that is exponentially declining in a discharge pattern of higher voltage and current commensurate with the armature accelerated movement by closing the trailing magnetic gap at higher speed forcing the armature all the way to engage the magnetic core timed with the discharged voltage feed decline, down to one of the rated voltage and below.

8. The latching device according to claim 7 wherein said combination pulse is further augmented by at least one median discharged voltage to widen the exponential curve thereby lengthen the feed time of the discharged voltage to commensurate with the accelerated speed and trailing distance for the armature to fully engage the magnetic core.

9. The latching device according to claim 8 wherein said discharged voltage declining all the way down to the rated voltage is augmented by a trailer of said rated voltage for stabilizing said latching and said engaging.

10. The latching device according to claim 7, wherein said relay and said hybrid switch are selected from a group comprising single pole single throw (SPST), single pole dual throw (SPDT), dual poles single throw (DPST), dual poles dual throw (DPDT), reversing DPDT, three and more (multi) poles single throw (MPST) and multi poles dual throw (MPDT); and

said state of said one of relay and an hybrid switch is selected from a group comprising switch on, switch over, switch off, switch from cross to straight and switch from straight to cross by engaging said at least one springy pole with said at least one first contact and at least one second contact including no contact respectively.

11. The latching device according to claim 7, wherein said one of relay and hybrid switch is structured to maintain said engagement through and after said latching with said one of first and second contact by a springy element selected from a group comprising springy structured pole, a micro switch pole, an elongated pole, a spring driven pole, a springy structured said one of first and second contact, a spring driven said one of said at least one first contact and said at least one second contact and combinations thereof.

12. The latching device according to claim 7, wherein said one of relay and hybrid switch is enclosed in a casing with connection terminals and pins selected from a group comprising surface mount terminals for soldering onto printed circuit board (PCB), at least one of solder pins and terminals for soldering to a PCB, at least one of plug in pins and terminals for insertion into receptacle sockets, at least one of plug in terminals and sockets for mating with reciprocal socket and terminals, at least one of wire terminal and connectors for wire attachment selected from a group comprising screw terminals, push-in wire terminals, crimping terminals, wrapping terminals, solder wire terminals and combinations thereof.

13. A method for latching one of single throw and dual throw pole contact of at least one springy pole included in one of a relay and an hybrid switch for maintaining one of engaging and disengaging state of at least one first contact with said at least one springy pole contact by a latching device comprising a springy lock pin exerting minute force, a slider with indentation path for guiding said springy lock pin and a track for said slider, said latching device is extended from one of an armature and said at least one springy pole to one of a base and a body

of said one of a relay and hybrid switch, said springy pole is guided by said slider movement propelled by negligible force exerted by one of a pull by a voltage rated magnetic coil and a push by a plunger, said method comprising the steps of:

a. exerting one of said pull and said push at a force commensurate with one of said magnetic pull force generated by said coil fed with said rated voltage pulse and by a human finger respectively to include actuating said at least one springy pole, said minute force exerted by said springy lock pin and a negligible force for propelling and moving said slider position;

b. alternating said slider position propelled via one of said pull and push from release position to a latch position including partial release for one of said engaging and disengaging of said at least one springy pole contact with said at least one first contact and one of said at least one second contact and no contact;

c. maintaining said one of said release and said partial release state of said slider for maintaining said one of engage and one of disengage and alternate said contact of at least one springy pole awaiting a fresh said one of pull and push.

14. The method according to claim 13, wherein said relay and said hybrid switch are selected from a group comprising single pole single throw (SPST), single pole dual throw (SPDT), dual poles single throw (DPST), dual poles dual throw (DPDT), reversing DPDT, three and more (multi) poles single throw (MPST) and multi poles dual throw (MPDT); and

said state of said one of relay and an hybrid switch is selected from a group comprising switch on, switch over, switch off, switch from cross to straight and switch from straight to cross by engaging said at least one springy pole with said at least one first contact and at least one second contact including no contact respectively.

15. The method according to claim 13, wherein the partial release and the full release movement of said at least one springy pole forces micro movement between the contacts of said at least one springy pole and said one of said at least one first contact and said at least one second contact for wiping said contacts from electrical blemishes.

16. The method according to claim 13, wherein said one of relay and hybrid switch is structured to maintain said engagement through and after said latching with said one of first and second contact by a springy element selected

from a group comprising springy structured pole, a micro switch pole, an elongated pole, a spring driven pole, a springy structured said one of first and second contact, a spring driven said one of said at least one first contact and said at least one second contact and combinations thereof.

17. The method according to claim 13 wherein said hybrid switch further including a key for pushing said plunger for enabling said engagement of said at least one springy pole by one of said pull and a push by said key.

18. The method according to claim 13, wherein said one of relay and hybrid switch is enclosed in a casing with connection terminals and pins selected from a group comprising surface mount terminals for soldering onto printed circuit board (PCB), at least one of solder pins and terminals for soldering to a PCB, at least one of plug in pins and terminals for insertion into receptacle sockets, at least one of plug in terminals and sockets for mating with reciprocal socket and terminals, at least one of wire terminal and connectors for wire attachment selected from a group comprising screw terminals, push-in

wire terminals, crimping terminals, wrapping terminals, solder wire terminals and combinations thereof.

19. The method according to claim 13 wherein said at least one springy pole is one of structured by and include a stronger spring for engaging said at least one of first and second contact with a stronger force for handling higher electrical current and said rated voltage pulse is augmented to increase the magnetic pull force generated by said magnetic coil at said rated voltage; and

wherein an associated electrical circuit for feeding said magnetic coil with said rated voltage pulse is augmented with at least one electrical feed source with higher voltage for charging a capacitor for augmenting said rated voltage pulse by timely injecting discharged higher voltage into said pulse thereby generating a combination pulse comprising an initial feed at the rated voltage followed by said higher voltage that is exponentially declining in a discharge pattern of higher voltage and current commensurate with the armature accelerated movement by closing the trailing magnetic gap at higher speed forcing the armature all the way to engage the magnetic core timed with the discharged voltage feed decline, down to one of the rated voltage and below.

20. The method according to claim 19 wherein said combination pulse is further augmented by at least one median discharged voltage to widen the exponential curve thereby lengthen the feed time of the discharged voltage to commensurate with the accelerated speed and trailing distance for the armature to fully engage the magnetic core.

21. The latching device according to claim 20 wherein said discharged voltage declining all the way down to the rated voltage is augmented by a trailer of said rated voltage for stabilizing said latching and said engaging.

22. The latching device according to claim 19, wherein said relay and said hybrid switch are selected from a group comprising single pole single throw (SPST), single pole dual throw (SPDT), dual poles single throw (DPST), dual poles dual throw (DPDT), reversing DPDT, three and more (multi) poles single throw (MPST) and multi poles dual throw (MPDT); and

said state of said one of relay and an hybrid switch is selected from a group comprising switch on, switch over, switch off, switch from cross to straight and switch from

straight to cross by engaging said at least one springy pole with said at least one first contact and at least one second contact including no contact respectively.

23. The method according to claim 19, wherein said one of relay and hybrid switch is structured to maintain said engagement through and after said latching with said one of first and second contact by a springy element selected from a group comprising springy structured pole, a micro switch pole, an elongated pole, a spring driven pole, a springy structured said one of first and second contact, a spring driven said one of said at least one first contact and said at least one second contact and combinations thereof.

24. The method according to claim 19, wherein said one of relay and hybrid switch is enclosed in a casing with connection terminals and pins selected from a group comprising surface mount terminals for soldering onto printed circuit board (PCB), at least one of solder pins and terminals for soldering to a PCB, at least one of plug in pins and terminals for insertion into receptacle sockets, at least one of plug in terminals and sockets for mating with reciprocal socket and terminals, at least one

of wire terminal and connectors for wire attachment selected from a group comprising screw terminals, push-in wire terminals, crimping terminals, wrapping terminals, solder wire terminals and combinations thereof.