Description Electron Exciter and Arc

This is a high frequency arc and gives out a bright light. High frequency lights have been out for a number of years, usually used for projector lighting, search lights, etc. However, our arc is much different as to uses, as our video shows. It will melt or vaporize anything on this Earth.

We compared this low voltage, low amperage arc (27A, 76V which can go much higher) to a heliarc 310 amp welder on high frequency. On a scale of 1 to 10 the 310 amp arc from the heliarc welder was a 1 at the most and couldn't come close to the output of our arc.

We call this generator an "Electron Exciter" because it produces a lot of electrons. When using heliarc torches and mix the gases, with no changes to the output of the generator, we can bring the 27A up to 86A. The 76V will go up to 149V producing much more power.

It appears that the electrons the generator produces bombard whatever element is introduced into the arc. It starts to break down the atoms immediately. For instance, placer gold at 85% purity will melt about as fast as it can be put into the arc. It has been tested to be 98-99% pure. Weighing before melting and after, it had no weight lost which means the 13% waste has gold in it.

A person brought us some sand from a creek in Colorado. Under a microscope it looks like course sand. After dropping through the arc, if there was any metal in the sand, it would pop open like popcorn. We could see gold and other metal particles with our naked eyes.

A company brought a cinder (precipitate) cooked down from a process of melting ore. The cinder could not be drilled into with a diamond drill and no amount of heat could penetrate it. The cinder was about 6" long and 3" across. The arc melted the cinder in about 3 minutes. There were large nodules of platinum and other precious metals in it.

We have melted a half inch rod of ceramic just like wax. At a different frequency we have ignited steam induced from a small clothing steamer. We have had pulverized ore tested after passing it through the arc. It contained platinum, iridium, osmium, gold, and silver. Crystal rock with gold in it would break apart and form BB's of gold.

The tungsten shown vaporizing in the video contains 2% thorium. The thorium atoms would break loose along with the tungsten atoms. The atoms could be collected in a scrubber and possibly to be reused to cut down on a lot of mining.

The Generator

The coils are on each side with the rotor in the center. To start the generator, we have to move the coils out with a servo motor, start the motor, and then move the coils toward the rotor to the desired power we need to treat different materials. We can control the power and the frequency as well as use different gases.

With our design it could be used as a low startup torque generator or motor. It could be used in many applications such as cars, trains, wind turbines, etc. Also, manufactured with different materials, it could be used as a non-contact brake. We have tested it with a 35 HP motor at full speed. When starting an arc, it will stall the motor out.

We've searched through the Patent Office literature and done a personal search. We have found no arc like this one. We are hoping you may know someone or a company that would have an interest in such an arc and generator that produces a relatively cold arc that has a lot of applications.

The patent # 7,893,588 is on both the Electron Exciter and the arc.