

An Apparatus For Coating A Wire With A Silica based Coating And A Method Thereof

Abstract

The present invention relates to an apparatus for coating a wire with a silica based coating is provided. The apparatus includes a tank adapted to contain a precursor solution comprising polysilazane, a conveyor adapted to convey the wire into and out of the tank through the precursor solution, such that the conveyor includes a plurality of conveying elements, such that each of the plurality of conveying elements is adapted to receive the wire in one direction and convey the wire to another direction, such that the one direction is different from the another direction, and such that the conveyor is adapted to control the speed of the wire through the precursor solution. The present invention further relates to a method of coating a wire with a silica based coating.

Fig. 1