Claims

1. A weight arrestor system comprising:

a retractor coupled to a weight suspended from a swing pivot and operable between a release mode and a retract mode, the weight being configured for travel from a first position towards a second position whereat the weight impacts an impact surface when the retractor is in the release mode, the weight being suspended from a swing cable extending between the weight and the swing pivot;

a sensor for sensing at least one of impact of the weight with the impact surface and approach of the weight towards the impact surface, the sensor being disposed whereat the swing cable is positioned when the weight approaches the second position; and

a controller in signal communication with the retractor and the sensor, the controller for operating the retractor between the release mode and the retract mode,

wherein when the sensor senses one of impact of the weight with the impact surface and approach of the weight to the impact surface, the controller switches the retractor from the release mode to the retract mode one of prior to, during and subsequent to impact of the weight with the impact surface to arrest the weight during bounce thereof from the impact surface to thereby limit travel of the weight towards and eliminate re-impact of the weight with the impact surface.

2. The weight arrestor system as in claim 1, the retractor comprising a winch and an arrestor cable having a free-end coupled to the weight and extending between the weight and the winch, the winch being operable for retracting the arrestor cable into and the free-end thereof towards the winch when in the retract mode and extending the arrestor cable therefrom when in the release mode.

3. The weight arrestor system as in claim 2, the arrestor cable being attached to an attachment point on the surface of the weight which outwardly opposes the swing pivot when being suspended from the swing pivot.

4. The weight arrestor system as in claim 1, the impact surface being a surface of a planar glass structure.

5. The weight arrestor system as in claim 1, the weight being initially positioned at the first position prior to release therefrom for travel towards the second position whereat the weight impacts the impact surface, the first position and the second position being equidistance from the swing pivot and the first position being spatially superior the second position, the weight being gravitationally displaced along an arcuate pathway about the swing pivot when travelling between the first position and the second position.

6. The weight arrestor system as in claim 5, further comprising a coupling mechanism in signal communication with the controller for control thereby, the weight being coupled to the coupling mechanism when in the first position, the retractor being in the release mode when the weight is coupled to the coupling mechanism.