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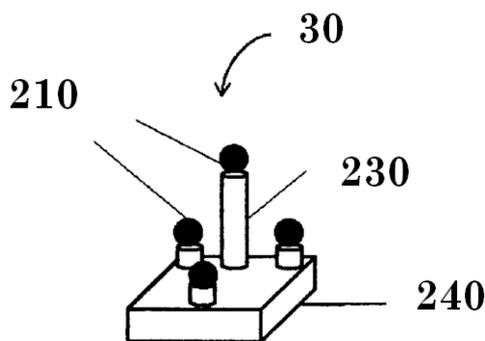
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60. As shown in figure 10, after grapple 50 is engaged in receiver 60, processor 90 commands lifting device 10 to lift grapple 50 and load 70, which remains attached to receiver 60 with sling, rope or net 80. In some embodiments, sensor 20, beacon 30, and processor 90 may continue to guide lifting device 10 for a distance so that load 70 is lifted directly vertically, and therefore does not swing. In other embodiments, the load may be monitored to its destination, and the grapple disconnected when it is detected that the load is placed on the ground or other platform.

Figure 7 illustrates one embodiment of a sensor 20. In this embodiment, there is a camera 110, a lens 120, and a filter 130. Filter 130 is a narrow band-pass filter designed to pass only wavelengths associated with beacon 30, and reject other wavelengths of light. In other embodiments, other sensors to detect beacon 30 include LADARs, RADARs, wideband



Pat. 8,643,850

Figure 10: schematic diagram illustrating, by way of example, a beacon.

light cameras such as cameras sensitive to infra-red and ultraviolet light, and other sensors, with a respective beacon providing the appropriate wavelengths of light, or other radiation in accordance with the present invention. In any case, sensor 20 receives the light from a beacon and converts the light into electrical signals that are provided to a processor, which calculates at least distance and direction information from the lifting device to a load to be acquired and lifted.

Method and device for producing a rope

Pat. 9,803,316 U.S. class D07B 1/148 Int. class D07B 5/00

Inventor: Bruno Lauer, Marpingen, DE.

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A method and device for producing a rope, in particular a wire rope, a fiber rope or a rope having wire and fibers, wherein the rope is provided with a marking during the stranding thereof. The marking is changed during the stranding operation. Expediently, during stranding, the marking is provided successively with details characterizing the stranding progress. The details include production parameters, for example information relating to the length of the rope already formed, about raw materials used, the stranding speed and/or the current stranding time. The details are provided on a wire, a wire strand and/or a marking strand, wherein the details are printed on the wire, the wire strand or the marking strand or are embossed in the wire, the wire strand or the marking strand, and/or chips, preferably radio chips, are arranged in the rope.

The device illustrated schematically in figure 11 for producing a wire rope, a fiber rope, or a hybrid rope consisting of fibers and wires comprises a marking unit 2, by means

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