

Pat. 9,728,943

Figure 3.: Part making up one of the single sides of two sandwich parts.

tips may be at symmetrical locations, that is the distance **306** between one end of the hole and the tip may be the same as the distance **307** between one end of the hole **107** and the tip **300**.

In addition, this “piece” forming the central portion has a connection area **310** that extends between the first tip and **300** and the second tip and **305**. This connection piece is a structural piece that forms the structural connection between the first and second ends. As shown in figure 3, this piece juts upward at the central area **311**. By jutting upward, it also forms an internal cavity **312**. There is also a portion referred to herein as the jutting end **315** that juts down from the first tip end, towards the second tip end but does not reach to the second tip end. This jutting down portion has inner surfaces, the first part of the inner surface forming the cavity portions **312**. The tip end of the jutting portion **316** is symmetrical to the shape of the cavity **312**, so that if a second portion like the first portion is attached to the first portion, the tip end **316** of the second portion extends into and fits into the cavity **312**.

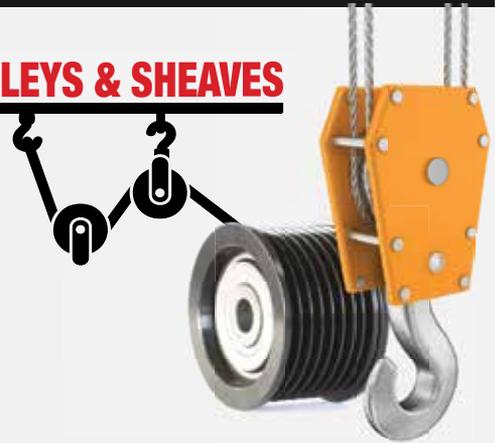
The portion has convex and concave curved surfaces. For example, there is a convex surface **320** and a concave curved surface **325**. Figure 1 shows how when two of these portions are connected together, the tip end **316** of one of these portions fits into the cavity **312** of the other of the portions. In addition, the convex portion **320** fits into a corresponding concave portion **325** of the other piece and vice versa. In this way, the two pieces are held together, but form the through hole **130**. Because of the structural support in the center when the two pieces are coupled together, one embodiment requires only a structural support between the holes at one end. Figure 1 shows that there is a bolt holding the portions at **107**, but no bolt holding the other portions at the other end **115**.

In operation, therefore, the two parts **111**, **112** can be easily separated by opening the screw **161**. This screw **161** may be of a type that does not require any tools for tightening and loosening. The screw is loosened, but remains captive in its location so that no parts can fall. Moreover, loosening the screw preferably only removes the screw from a portion of the opening so that the end **100** remains attached to the body **110**, but allows the two parts **111**, **112** to separate from one another. In this configuration, the parts can be separated, and the cable can be placed through the through hole **130**. The parts can then be re-connected, and the screw retightened. No tools are necessary for this operation, and no parts can come loose from this operation. Accordingly, for example the carabiner **120** can be attached onto a support during the operation, so that no parts can fall while the device **99** is being attached onto the cable.

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