3 Retention cord

The strap connecting the finger loop with the pouch is called the retention cord, because it stays affixed to the throwing hand when slinging. To allow better control over of the pouch orientation, retention, where the wide edge is in line with the surface of the pouch. This makes the cord stiffer along the short edge, and more flexible along its wide edge.

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The pouch holds the projectile during the throw. For a sling to release well, the weight of a pouch relative to its length should not be smaller than that of the sling's cords. Depending on the method of construction and the materials a sling and its pouch are made with, their appearance can vary greatly. Overall, there are three main categories: closed pouches, split pouches and netted pouches.

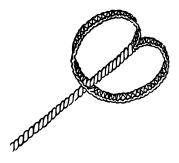


Figure 3: A double finger loop.

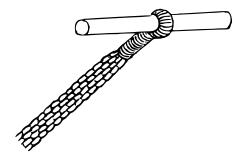
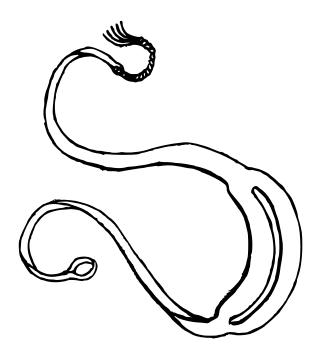


Figure 4: A handle.

Parts of a sling



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KHERMADION

4.1 Closed Pouch

often cut into the leather. unclean release. To prevent this, holes or slits are pouches tend to bulge over time, which leads to an rectangular, oval or rhombic shape. Closed leather strap of leather or woven textile. They often have a Closed pouches consist of a flat or slightly cupped

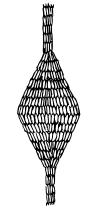
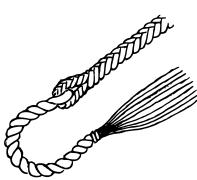


Figure 5: A closed pouch.

Figure 8: A cracker.



The loose fibers are prone to wear, as they briefly break the sound barrier on each crack. To increase the lifespan of a cracker, it is often made out of synthetic material, and sometimes constructed in a way to make it easily replaceable.

Furthermore, a cracker decelerates the release cord,

which supports a clean release of the projectile. Especially for shorter slings where the release cord on its own has not enough drag to act as a brake during release, a cracker is beneficial.

The first issue of KHERMADION gives an overview of the various parts a sling consists of and describes their function.

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allows to sling more heavy projectiles.

Finger loop

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rigid handle, which can be held with the entire hand,

sing to be held with two fingers. A wrist loop or a

may be two loops next to each other, allowing the

simple loop at one end of the sling. Sometimes, there

end of the sling to the throwing arm. It offen is a

The finger loop is slid over a finger and fixes one

Figure 2: A simple finger loop.

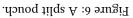
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to hold a projectile securely. They rely on sufficient lateral stiffness and friction tiles but in turn struggle with too small projectiles. adapt to a larger variety of differently-sized projecning in parallel. Other than closed pouches, they can Split pouches consist of two or more flat straps run-







Often, the release cord of a sling ends in a tassel of loose fibers, which produce a loud crack when the projectile is released. A tapered release cord greatly facilitates the whip crack, but is not strictly necessary. The crack only occurs when the sling unfolds correctly. Therefore, a cracker is particularly useful when practicing.

The end of the release cord is pinched between the fingers of the same hand which holds the retention

cord. Some slings feature a knot, bead or a tab at this point to provide more grip and thus allow to sling

heavier projectiles. The location of the release knot is chosen so that, when the sling is held, the pouch

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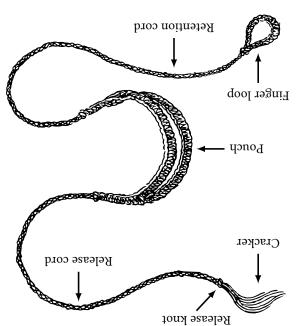
Release knot

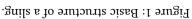
folds evenly around the projectile.

Cracker









As Netted Pouch

jectiles well. jectile sizes, while still being able to hold small propouches, they can conform to a large variety of prostaggered slits in parallel with the sling. Like split Netted pouches feature a net or a closed pouch with



Figure 7: A netted pouch.

The release cord is usually lighter than the retention cord to facilitate the release of the projectile at the end of the throw. It may even be tapered, being thicker at the pouch, and thinner at the end. The reason for this is twofold. On the one hand, depending on how the sling is constructed, the retention cord starts thicker at the pouch, usually because of additional material that was added for the pouch to increase its weight. Tapering allows to reduce the weight of the release cord without sudden changes. On the other hand, when the sling opens up upon release, a tapered release cord can snap like a whip, allowing a cracker at its end to dissipate the remaining energy efficiently.

5 **Release cord**

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is let go of, the sling untolds, releasing the projectile. Both of its ends are held in one hand, and when one section in the middle where a projectile can be seated. benebiw a gnirutaei darte eldixeli gnol a si gnile A

shows a typical sling with its components labeled. this basic structure and working principle. Figure 1 ods and cultures can vary greatly, all slings share While the appearance of slings from different peri-

traditional slings made of natural materials. made of synthetic materials, or up to $100\,\mathrm{g}$ for more weight of a sling can be as low as $10\,\mathrm{g}$ for thin slings to allow for greater distances. At the same time, the ally believed to be more accurate, longer slings tend well over one meter. While short slings are generlengths commonly range from about half a meter to the finger loop to the middle of the pouch. Sling not its full length is stated, but its folded length, from When referring to the dimensions of a sling, usually

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