THURSDAY, MARCH 8, 1917



seam on the right side No 1. To make a French seam first take an ordinary of the material; then trim off the seam edge te to the the fuld of the seam so as to hold the seam edges between the fold, then stitch

No. 2 For the flat fell seam take an ordinary seam on the wrong side of the material, then trim off one of the seam edges close to the seam. Turn the desirer edge over the trimmed off edge, then fell it down flatly to one side. No. 1. A very simple finish for a plain seam is to overcast both edges to-gether to keep them from raveling

there? No. it does not just depend our her hunnor. There's a reason for every kind of scam The French seam is marty siways used for tub dresses and blouses of fine materials, such as volies, iswus and dimities, for chiffon, georgette crape, crepe de chine and other soft sliks, and it is often preferred even for such sturdy materials side. The French seam, however, is as ginghams and linens. It is much run up more easily, and it is often stronger and neater than the overcast used even in underwear. seam, which does not hold well in fine

for the first sewing and silk for the second alone is poor economy, because the slik is stronger and more elastic.

y

i) many different kinds of seams While it will "give" with the material Why does the dressmaker use and not pucker after a laundering, the this kind here and that kind cotton seam does the reverse and therefore must soap. This applies to chiffons, crapes and silks, which are always sewed with silk. Cotton, of course, must have both seams cotton. The flat fell seam is used chiefly for underwear. It is preferred to the French seam for this purpose because it is so much smoother on the wrong

fine weave, which would not ravel If you are tempted to economize in casily. These are usually the heavier making French seams-don't! Cotton cotton materials, and for such there ant rag" terr annut than me

fron or other metal about two and a **GRENADES IN WAR**

Terrible Weapons When Charged With High Explosives.

MERCILESS DEATH SPREADERS

They Are Made Now to Be Flung by Hand at Close Quarters, to Be Shot From a Hewitzer or to Be Planted as Mines and Fired by Electricity.

The use of hand grensdes as an implement of war dates back nearly four centuries, and this doadly weapon remains today, as in the sixteenth century, one of the most effective wentOvercasting is used on materials of a

are also other more popular finishes. ----

half inches in diameter, filled with powder and provided with a fuse. which was lighted before being thrown. At first there were a few in each regi ment, later entire companies were formed, and still inter every infantry battalion had its own grenadler com pany, which in the different armies had precedence over the other companies

at parades and other formations. "During the war between Russia and Japan hand grenades were again used in great quantities by both sides, especially in fighting at close quarters, an ! so deadly effective were they that it is not surprising the inventor's mind oc-cupied itself with this means of combat and endeavored to adopt it to the requirements of modern warfare.

"First of all, it was very important to invent a projectile that would unite deadly effectiveness with complete ety of the thrower.

emy. In each case they are veritable Jeath dealers.

"The rifle greande weighs about 550 grams. It contains seventy-two bullets weighing 2.5 grams and seventy-two grams of explosives. The seventy-two bullets cover a space of at least forty to fifty square meters. The rife greande may be fired from an ordinary army rifle at any range up to about 400 meters. The great destructive ef-fect of the greaade is due to the fact that the explosion takes place immediately after the grenade strikes the ground before it has had time to bury itself in the soll.

"The 'howitzer' grenade weighs one allogram and contains 215 bullets and a bursting charge weighing 200 grams. It can be thrown with the hand forty meters or with a 'howitzer' 300 meters. The 'howitzer' is a contrivance made of a cylinder and weighs twelve kilo-grams. It may be carried like a rifle. The bullets of this grenade cover a semicircular space of at least eighty square meters and spread only to the front and interally, but not to the rear toward the thrower. They are, therefore, of especial value for fighting at close quarters. They are constructed so that they may be exploded only aft-er they have traveled eight meters toward the target.

"The band grenade weighs one kilogram and contains 190 bullets weigh-ing 2.4 grams and a bursting charge weighing 110 grams. In contrast to the above described 'howitzer' grenade the bullets fly in every direction, so that it

is only used for throwing from cover. "The last kind of these grenades is the mine grenade. It weighs about four kilograms and contains 400 3.3-sram bullets and a 200 gram bursting charge. The 400 bullets will cover a space of at least 800 square meters. These grenades, together with their electrical connections, are placed about oue-half meter under the surface of the ground, so that they are completely

invisible to the enemy. "When it is set off the grenade rises about three-fourths of a meter above the ground, then explodes and throws the bullets in all directions parallel with the ground. At a distance of ten meters the bullets will go through wood at least a hundred millimeters thick and retain deadly effectiveness for a distance of fifty meters. A de tachment of a hundred men can lay a line of these mines over a front of 4,000 meters in less than two hours.

"In a test three mine grenades were laid in the corners of a triangle whose legs were thirty meters long among a group of 145 wooden double silbouettes that were scattered over a space of 2.700 square meters. The grenades were set off electrically one after the other. The result was that 120 sil-housttes were hit 700 times."

Serious.

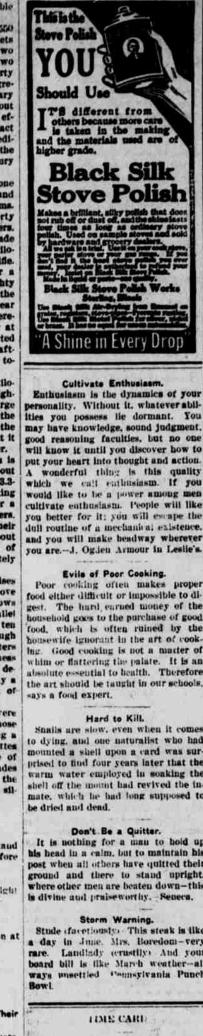
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PAGE TH

ons of warfare. In the United States Infantry Journal there is an article dealing with grenades which is a translation from the German military pub lication, Militar-Wochenblatt.

"Hand grenades," the article reads. "as an implement of warfare date back many centuries. History records their use as far back as 1536 at the slege of Arles. Up to the close of the eightcenth century soldiers were trained in the throwing of hand grenades. They were for that reason called grenadlers. "The grenades were hollow balls of

Danish inventor, constructed a number of hand, rifle and mine grenades which are said to fulfill these requirements. "The hand grenndes are carried by

the man until required and then thrown by hand. The rifle or 'howitzer' grenades are fired from a firm rest such as a wooden stand made from a rifle placed on the ground and directed at various angles of elevation by means of stakes. The mine grenade is auchored in the ground and discharged by electricity upon approach of the en-

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