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THE COTTON THAT KILLS; HOW IT IS MANUFACTURED

Transformation of Innocent Product of Peaceful Use into Terrible Lethal Agent Upon Which All Nations at War Must awful work begins when it "gets Depend. Why It is Contraband.

cently contained 9,000,000 lbs of lard. way. It was contended that the Germans now made glycerine from this inno-developed gun-cotton, which, mixed

band of war. explosive—the dread "T.N.T."— used ny's nitro-glycerine. in German shells, mines, torpedoes. facture. Carbolic acid, too, with compose, and this leads to disaster are driven to using woody fibres,

spindles supplying the universe with

Fire 5,000 Bales A Day The Hindu's turban in Manchester and the loin-cloth of the African savtrated cotton as a propellant. The terrific bombardments of the Austro-German "phalanx" use up cotton by through the sea at railway speed. the ton. Our foes are credibly reported to be firing off 5,000 bales a day in desperate endeavor to dynamite their way to victory before the Allied Powers can extend their own

the fortress of Przemysl as the Rusficient for a six months' siege.

But it pays, as the French found hear Arras, where one day's bombardment cost them \$1.625,000, and won points of the highest tactical importance. Observe how the world's treasure melts in this earth-rending din. I repeat, it takes cotton to throw every bullet and every shell by land and sea. Hence all the po itical stir about cotton as "absoute contraband of war"

Absolute Contraband Now It was a delicate and perplexing question. "We have to be very careful," the prime minister explained in the exercise of our belligerent rights, not to impinge upon the trade interests of neutral powers with whom we are on terms of perfec amity." At the same time Mr. As reat deal "of this material and necessary ingredient" did reach the enemy, and the problem was receiv ng "watchful consideration" by the

But the cotton is now absolute conraband, and German chemists are hard put to it to devise substituteswood pulp, for instance, purified with acids, and nettle fibre which was once largely used as a textile material. So the stoppage of cotton is a serious thing. Despite our blockade Germany got huge supplies from neutral ports. Import figures show that since the war began Sweden has taken 29 times her normal allowance, Denmark 35 times, Holland

15, and Norway 18. All this surplus cotton has gone to Germany to deal death and destruction upon us. The 15 in. naval rifte, such as the Queen Elizabeth carries, fires a whole bale of cotton at each discharge; the same weight (400 lbs) would make cordite for 80,000 rounds of rifle ammunition. Now for explan-

Invention of Gun Cotton As guns by land and sea increase in size and power, the old black powder grew more and more unsatisfactory. It burned too quickly, and put too great a strain upon the

(W. C. Fitzgerald in London "War breech. Worst of all was the smoke. A naval broadside left an impenetra- pure cotton. To make a million shells. Surely the strangest perversion of ble pall which lasted many critical such as Germany shot off in a single human genius is that which turns minutes. A smokeless powder was day would need a whole ship-load of food and clothing into terrific ex-demanded of the chemist, and in 1845 cotton, or about 1,750 tons. plosives for the shattering and maim- a Swiss discovered that if you took ing of men. Four ships whose fate cotton wool and tested it with nitric was argued in the prize court re- acid, the stuff burned in quite a new Sir William Ramsay, declares:

cent stuff, and of course, glycerine with nitro-glycerine and vaseline, was s on the list of "ingredients of ex- gradually refined into "cordite," the plosives," and so is absolute contra- present propellant explosive in both enemy calling up shirts and sheets, our services. The propellant pow-From the harmless useful coal ders of all the great powders are comes benzole, from this in turn is closely allied—the French Smokeless which B, Italian ballistite, the nitrocellulose yields our enemy his most powerful of Russia and America, and Germa-

and aerial bombs. Then Scotch dis- in this tremendous agent, as well as now experimenting with dried elder tillers, we hear, are decidedly short the least possible erosive effect up pith, hemp, and straw and wood on their spirit allocations, owing to on the rifling of the gun's inner tube. fiber "I declare as a chemist," says furgent needs of the government in But all these cotton powders are not Sir William Ramsay, "that this is connection with high explosive manu-lequally reliable. They are apt to de- impossible." . . . "If the Germans which the surgeon cures, is also a such as destroyed the French battle- their resulting explosive will not pro-

have for twenty years used cordite in all calibers, from the pistol to ca's greatest crop, employing 25,000,- the 90-ton gun, without any serious accident. The stuff is a wellow ropelike paste. Set fire to it and it burns harmlessly. Strike it with a hammer and it won't explode Fire a bullet through a package of cordite and no-

and fulminate and our cotton powder age. Yet, strange to say, cotton also charge in the war head of a torpedo means high-explosive shells. Every or hurling a ton-weight shell ten weapon, great and small, from the miles or more. "We began to hit," rifle to the giant howitzer, uses ni- reported Admiral Beatty, "at 17,000 yards," surely a miracle of gunnery with pursuer and pursued tearing Three Explosives for Every Shell

Now let me be clearly understood. say the propellant powders of all nations are more than half cotton But are there other powders? suredly there are— three in every We know that on the Dunajec they shell. The cordite charge actually used 700,000 shells in three hours, throws the projectile. Next comes concentrating 2,000 siege guns, and into play the fulminator (of mercury) literally blowing away \$2,500,000 and lastly the "high explosive," lyd-Again, in four hours the enemy fired dite with us, melinite or turpinite, as much high explosive shell against with the French, ammonal, with the Austrians, shimose, with the Japanese sian experts would have thought suf- and with the Germans trinitrotoluene

Terrific Agents.

These are the gas producers, appalling in effect, earth-rending, controllable. No steel tube was ever forged in which these terrific agents could be exploded. This force, say in the familiar "Jack Johnson" shell, drives a crater in the earth in which ussion waves strike men dead without a scratch or injury. Picric acid derivatives like our own lyddite, and coal-tar products like the German

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It is the high explosive that shaters trenches and buries men alive in them. It is the high explosive that "searches" a position, whether by shell, bomb, or aerial mine. But the stuff is not used in the gun. Its there," so to speak. And the propulsive agent—the powder that throws the shell-is a nitro-cellulose compound, of which over 60 per cent is

"Life and Death" No wonder our famous chemist, is a matter of life and death for us Out of this Sir Frederick Abel that there shall be no further reexportation of cotton to Germany." Sir William scouts the idea of substitutes. Other experts picture the towels and handkerchiefs, surely an odd contribution to the world-war, following the call upon gold ornaments for treasure, and copper pots

for the bands of shells. A cotton famine, then, menaces our Power and stability are aimed at fee as nothing else can do. He's

> have to alter all the rifle and artillery sights. Both operations would be absurd during the war."

As for making the explosive from manufactured cotton goods, this ing would be far less effective than that made from raw cotton, pure and But apply a detonator of mercury clean and of fine quality. Moreover, fabrics. It is a fascinating dilemma. Making of Gun-Cotton

> Powder made without cotton at all is ten times less powerful than our cotton. All the nitro-cellulose (cotton) powders require extraordinary care-care in blending the cottonwaste, care in steeping to secure ungreatest care in storage. Our own cordite is kept refrigerated to a safe temperature in the magazines of our warships. On the whole it is the most stable of all the nitrocellulose compounds, whether for the plains of In-

The early story of all cotton powders is marked with terrible disasttion of the stuff. At Waltham Abbey or Stowmarket you may see girls picking over the innocent, fluffy cotton-waste to remove all foreign matter-a scrap of wood or string or cardboard. Then tearing machines take the cotton and open out lumps and knots, so that the acid bath shall have perfect access. It is then dried, and afterwards cooled in air-

These are now taken to the dipping house, where the cotton is carefully weighed into small lots and transferred to the mixed acids, of which it absorbs ten times its own weight. Excess of acid is squeezed out, and the cotton put in a pot and placed in the steeping pits, where it stays twenty-four hours in a low temperature, maintained by a stream of cold water. It is already nitro-cellulose, the basis of all propellant powders. Next comes washing, wringing,

holling and beating. Finally the pulp is run down wood shoots provided with grit traps and electro-magnets which catch the smallest particle of iron, sand, or other impurity. Lastly the stuff is blendid and kneaded into cakes and discs for torpedoes, mines, bombs, or shells. As an explosive, 40 lbs of gun-cotton equals 200 lbs. of the most powerful black powder. Cordite, the famous British propel-

lant, is based upon gun-cotton (65 per cent) mixed with nitro-glycerine (30 per cent), and a little mineral jelly (vaseline, 5 per cent). Fired in a big gun it gives an intensely orange or scarlet flash, and a dense cloud of smoke which instantly disperses. For powder, reliability, and minimum wear and tear in the rifling, this powder is the best in the world. A on reels, as if to remind us of its

yellowish ropey stuff, it is wound upcotton origin—the cotton that clothes as well as kills.

Truly explosives go in innocent guise. Thus picric acid is a cure for burns It is also the main ingredient of lyddite, the terrific agent in our high-explosive shells. Without nitrogen there could be no explosive at all, yet this inert gas is the chief constitutent in the very air

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I We give below a list of some of this furniture and draw our customers' attention to the fact that although some of it is in sets, any single piece of furniture will be sold if requested.

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