New Light Thrown on Odessa's Bloody Scenes

Lower Element Started to Pillage, Burn, and Kill, and Soldiers Sternly Mowed Down Mob to Protect a Half Million Citizens.

The following extracts are from the put on clean linen and a good private letters of an Englishwoman dress.' written to friends at the time of the troubles with the Potenkine mutin-

eers at Odessa; of living in a peaceful, busy, com- cook, were in walking dress. Check produced the best results, explosion mercial town, we seemed to be on a books, passports, and money had devil's playground. Bombs, riots, been fashioned into a cunning little fire, and the expectations of bom- dress improver under the Barina's bardment from the mutinied crew of skirt, and small handbaskets packed the Potemkine, combined to make with cognac, bread, and sausages. the change. How we hated the Then we waited again. The soldiers great turretted ship, with her heavy closed the street. They ordered us guns trained night and day on the to close all windows on the Polish defenceless town-for defenceless we street. The master of the house rewere during three long days, One tired to rest. Then we coaxed the thing alone was certain; the Jewish servants to bed. Mania, the cook, 'blind' had armed their people, and remarking that at any rate her the bombs thrown on Cathedral corpses would be buried clean. square told us that the society were "And, strange to say, most of us, provided with more powerful weap- worn out by the anxiety and watch ons than firearms.

ANARCHISTS' OPPORTUNITY.

out. Every inch of the harbor seem- It was wonderful how the people chemist who invented it, possesses ed to be on fire. The glare from the adapted themselves to the changed the highest qualities of any known by a constant and by the thick adapted themselves to the changed the highest qualities of any known by a constant and by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted themselves to the changed the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the thick adapted the highest qualities of any known by the highest quali burnt ships and buildings, the thick circumstances. The squares had been as regards stability, force and subblack smoke columns of the coal turned into encampments, and the mission to control. Evidence of and sea, made a picture I shall never wives sat about gossiping, joking, results wherever it has been used, forget. A storm of threats, a rattle and laughing with the soldiers off from the first action at Chemulpo, of pistol shots, and a shower of duty. They gave quite a homelike when the Variag was battered alstone greeted the firemen, and some look to the state of siege. In the most out of shape as regarded her of them fled back to their stations. evening came the call to prayers, and upper works, through the siege of And at the top of the military the sound of the strong voices of the Port Arthur, down to the last and "spuck," or incline, a party of An- men chanting the evening hymns ad- most disastrous defeat of the Rusarchists were stationed on the roof ded to the sense of security and sians in the Sea of Japan. of a wing of the Crimean Hotel, order." awaiting their opportunity when the rush of the populace should come.

"About midnight a roar of human tumult told us that the people were coming from the harbor. So fierce and vodka-maddened were they LESSONS IN JAPAN'S VICTORthat the officers doubted their power to stem the rush of the yelling, smok-blackened mob. Huge, power- War In Manchuria the First Conful grain carriers and dock hands were there, and slim agile Circassians; Jews mixed with Russian students; unsexed shricking women were everywhere. And everywhere was the scum of our cosmopolitan town howling, firing, and surging towards the square.

SOLDIERS PROTECT PUBLIC.

"The soldiers' walked between two high explosives employed. fires, the mob in front and the Anar-! It is the first great conflict in Boers had much the same experience of some 500,000 fellow creatures and a cost. flight. They left more work behind than our doctors could grapple with.

ORDINARY LIFE RESUMED.

"It was strange on Thursday morning to watch the town striving to resume its ordinary course. The icemen, milk-women, and bakers again began their rounds. The sunrise was beautiful that morning over the red- ate rangefinders. tinted clouds and sea, but what the sun illumined in the harbor few of us here care to remember. The Jew- also then in use had limitations at Port Arthur, but the forces were sent war from the professional point annually. ish bund and the Maxime Gorky's both as a propelling force and as an heroes had had their day, and I do explosive in shells, though it was not think the results could have been less liable under ordinary conditions satisfactory even to them. Ruined to the rapid decomposition to which buildings, burnt and sunken ships, the modern compounds are subject. quays that had been crowded with To a certain extent it was the limbusy workers and were now turned itations in the power of the old into smoking ash-heaps were on every charcoal powder that retarded the hand, and everywhere, too, lay the effective improvement in artillery charred fragments of human beings eventually called for by the discovwho had been burnt beside the vodka eries of chemical research. So soon casks, from which they had been too as chemistry brought into existence intoxicated to move when the flames the new explosives the days of the swept up to them. It had been a old cast iron gun were numbered, holocaust indeed. No wonder the men and the arts of the metallurgist and whose duties took them to the in- mechanic were brought into rivalry land harbor do not care to speak of with that of the chemist, each trythat morning's work. Twenty-five ing to produce a weapon or an exwagons of dead bodies picked up at plosive which would be equal to the the Polish "spuck"; the military highest requirements in war. 'spuck' must have been more, not! to mention the Nichola Boulevard, where the rush was the most desperate of all.

SHELL FROM REBEL SHIP.

"That Thursday was an interminable day. The entire town seemed on the watch for some surprise, and about 8 o'clock it came in the shape of a live shell from the Pot- the smokeless explosive, intended to emkine. There was a general rush propel the bullet or shell or solid to balconies, roofs, and any place bolt from the gun, and that intended where a view could be gained of the to be used as a bursting charge for ship. People living on or near the the projectile of the most modern 'spucks' began to prepare for flight.

" 'Mania,' said the mistress, entering the kitchen of a flat on the Polish street, 'leave everything at once; here is your passport.'

COAXED SERVAMTS TO BED.

other crash. By this time the entire against armor without penetration. "Odessa was transformed. Instead household, with the exception of the Recent experiments are said to have

> of the previous nights, contrived to get some sleep.

"In the afternoon the fire broke gone, and confidence was restored, called after the celebrated Japanese

IES ON LAND AND SEA.

flict in Which Latest Guns Have Been Tested.

effect of the new artillery and the brain.

chists in the rear. Stronger and which full scope was found for the with the British lyddite shells, be- can be fired from the larger guns, more furious pressed the mob, while products of modern mechanical and sides having their skin where ex- such as the 12-inch, is restricted, but we who watched, blanched, thinking chemical science as applied to the posed turn to a deep yellow by the in the naval action the weight of of the riot and destruction that art and practise of war, and no gas evolved. One of the latest metal charged with high explosives threatened the city. The rioters doubt the gun factories and chemical forms of a picric compound is known that can be thrown in a few mingained ground, but the soldiers never laboratories of all the great military as maximite, of which great things utes practically assures victory, wavered. Volley after volley rang and naval Powers have been hard are said, but the shimose is the only where there is an equality of force, out again and again, and yet again at work since the first technical re- one of them all that has proved its to the side which gets in the quickand then the arrival of machine guns ports began to come in from the op- efficacy in war. settled the contest, for there was no posing armies profiting by the exhesitation in using them. The sold-perience which the Russians and Ja-shells charged with such high ex-tle of Tsu Shima left a permanent ier's faces were stern set; the safety panese have been gaining at so great plosives as the shimose compound is memorial to the truth of this.

so the guns moved furrows into the wars have been much less destruc- cept when the shell containing it going to have in the case of naval ranks of the rioters, decapitating tive to life in battle than is popu- fails to explode on striking. But bombardments of coast defenses is here and amputating there, until the larly supposed. The killed and the effect on ordinary earthworks a problem of the future. Hitherto mob suddenly scattered in headlong wounded in the Franco-German war, and regularly constructed batteries the land batteries have generally had for instance, from artillery fire is prodigious. formed only some 15 per cent. of the total casualties.

the shells and to the want of accur-

THE BLACK POWDER

Improvements in the infantry rifle and field guns followed each other so rapidly that an army was hardly provided with a new weapon before it became obsolete and another took its place, and soon the smoke-giving higher explosive was superseded by the smokeless of still greater force. Then came the distinction between

The brown cocoa powder and other forms of the same material that followed the black powder have given place to higher compounds, of which "'I have not washed myself, Bar- nitroglycerin is the basis, and which ina,' said the cook crossly, but true are known as cordite in the British to her sex even in the hour of dan- service and by other names in other

from the acids employed in the manufacture

THE LATEST EXPERIMENTS

have produced a more satisfactory material, but the research for a better continues.

mines of all kinds compounds of picric and guncotton are the most the piece and generally employed. The difficulty with a pieric compound has been to obtain the best effect.

In some cases, as in lyddite, it is too sensitive and is dangerous to the gun throwing a shell with which "Half an hour passed. Then an it is charged, besides exploding taking place only after the shell penetrated the plate representing the armor of a battleship.

The French melinite is said to answer all required purposes, but the secrecy which has been kept regarding its manufacture and use, so far as the general public is concerned, leaves it uncertain. Other countries have their form of the picric compounds with which their war departments profess themselves satisfied, the Austrian especially believing it has one of peculiar efficacy.

But it would appear from the experience gained during the present "By Sunday the Potemkine was war that the shimose explosive, so

Not only was the Japanese fire remarkable for its accuracy, but it was still more so for its terrible effect, which, moreover, was not entirely mechanical. The stifling and poisonous character of the gases evolved on the bursting of shimose charged shells on board the Russian ships simply

PARALYZED THE CREWS,

choking them and rendering them incapable of action. Those in the im-When the official history of the mediate vicinity of the explosion Russo-Japanese war comes to be who were not killed by pieces of compiled it will probably be found shell were destroyed by the force of that the most interesting chapters the detonation, while those further will be those relating to the use and away suffered from concussion of the

During the South African war the

naturally far greater than that by What the effect of the progressive

from the Japanese batteries after rected Gen. Nogi had got down to his work | The unfortunate thing in the premore equal, hence the duration of of view is that in a great many rethe siege, eleven months.

which the material is manufactured deficient in most of the scientific ap- ever on the Japanese side there may varies. But it was a long time be- pliances for their guns with which have been circumstances or causes of fore a compound was found which the Japanese were amply supplied, success not known to the outside was stable and did not use up the and lacked the explosive that made world they will naturally not be dilife of the weapon in which it was the Japanese shells a terror to the vulged, but will be guarded with the used too rapidly, owing to the ero- garrison and fleet. The consequence strictest secrecy, so that many of the sion caused by the gases evolved was that, with all chance of relief problems of modern war still remain cut off, the surrender was only a for solution. matter of time and expediency.

whether we have not about reached rapid changes that are taking place the limit of power, chiefly because in the scientific and mechanical apthere is no known metal or process pliances used in battle, and if one of hardening those employed in mak- looks ahead only a couple of de-In the matter of explosives for ing cannon that can resist the wear cades the possibility that science bursting charges for shells and and tear of use, which also becomes may discover methods of destruction greater with the increased caliber of

> WEIGHT OF THE PROJECTILE. Between the modern gun and that of this year in the last century there is as great a difference as between the explosives used in them.

The best of the old guns that were cast with a smooth core to form the bore were never more than approxireason that the axis of the bore had almost invariably anything from one or two as much as five degrees variation in some guns from the axis of sighting and the line of elevation. In those days the best gunner was the one who had become familiar with the vagaries of his weapon at all ranges, and knew where to plant his shot in spite of them.

In the modern piece mechanical perfection and the use of mathematical and optical appliances for range finding and sighting have diminished the value of the human factor in some ways, while they demand a more cultivated intelligence in the manipulation of the gun.

From the cast iron, bronze or steel we passed on to the gun with wharves, the blood red light on land Dvorniks and workmen and their these qualities is to be found in the hardened steel tube, with jackets of wrought iron built up around it. A very short experience, that gained at the bombardment of Alexandria in ering over 100,000,000 acres-three 1882, demonstrated the vital imper- times the size of England. fection of this type.

traordinary test, such as extra rapid of the Austrian prisons. fire, these guns broke down in every A system of electric cooking and way. The steel tubes of some of | dish-washing is to be installed in all them split, while the jackets of the warships of the United States others were displaced to such an ex- navy. tent that they were put out of action.

The demands for more rapid fire than was possible with the best mechanical appliances for the charging of the muzzle-loading gun led to the evolution of the breechloader and ultimately to the quick firing weapon of large caliber now in use in every navy and being rapidly adopted in land service. For field guns, the rapid fire system has been brought to great perfection, and this is also true of the smaller guns of position and of guns for sea ser-

SUCH AS THE 6-INCH GUN. As yet the number of shots that est and best directed fire at the The damage done to buildings by start. The Russian fleet in the bat-

their own lives were at stake, and The effects of field gun fire in past the old time charcoal powder, ex- changes in guns and explosives is the best of it; but given a steady They are simply reduced to a gun platform and fine clear weather, shapeless heap, untenable by the de- the chances seem turning in favor of This was owing in great part of fenders, who must either surrender the ship. On land conditions are mechanical deficiencies in the wea- or abandon their positions, as the equalized, for both sides can employ fish senseless and an easy prey. pons compared with modern guns, to Russians were obliged to at Port vertical as well as horizontal fire, the uncertainty of the fuses used in Arthur. The bombardments of the the former as the Japanese showed Continent bee-farming has become a works defending Sebastopol were at Port Arthur being effective in the child's play compared with the fire highest degree when scientifically di-

spects the conditions were unequal, At Port Arthur the Russians were and it is morally certain that wher-

Strategy and tactics even are be-As regards guns; it is a question ing modified in application by the so terrible that war will kill war presents itself. It only needs that some new discovery in chemistry, or some means of utilizing electricity in the destruction of ships and large bodies of men be placed at the disposal of some government and war would be revolutionized.

The "vrel" of Bulwer's imaginations has not yet been found, but we may be on the threshold of its mately accurate in their fire, for the discovery; and then all the warships and guns of the world will become material for the scrap heap, for they will be of as little use against it as the spears and shields of the old Vikings in their cockle-boats would now be against the latest battleships put afloat.

BITS OF KNOWLEDGE.

Little Chunks of Interesting Information.

Every German fortress keeps on an

average 200 carrier pigeons. Powdered codfish is sometimes used in Iceland to make bread, in place

of flour. A cork tree must be fifty years old before it produces bark af a commer-

cial value. Balloonists say that birds' flight is limited to 1,315 feet above the

surface of the earth. The Czar has a single estate cov-

Tooth-brushes and tooth-powder Although not subjected to any ex- are to be supplied to all the inmates

Mauna Loa, in the Sandwich Islands, 13,650 ft. high, is the highest mountain which rises directly from

the sea. Out of 77½ millions of acres of land in the United Kingdom, only 28 millions are under permanent pas-

Since 1892 no newspapers have been printed on Sundays in Norway, and since 1895 no bread has been baked on that day.

London and Liverpool are both at the level of the sea. Glasgow is 30 ft. above it, Manchester 50 ft., and Birmingham 300 ft. Siberia could contain all Europe

except Russia, and there would still be room left for another country twice the size of Germany. The largest cabbage farm in the

world is near Chicago. It is 190 acres in extent, and yields nearly 1,-250,000 cabbages each crop. Birthday celebrations are unknown

among female Moors. They consider it complimentary to be absolutely ignorant of their age. The site of a little cigar shope at

the corner of Wall Street, New York, has just been sold for \$700,000. This works out at \$26,000,000 an acre.

The baya bird of India has the curious habit of fastening fireflies to its nest with moist clay. On a dark night such a nest might be taken for an electric street lamp.

In Georgia the mountaineers catch trout with a sledge-hammer. Their practice is to thump a rock under which a trout seeks refuge with a hammer, the concussion rendering the In many parts of the Australian

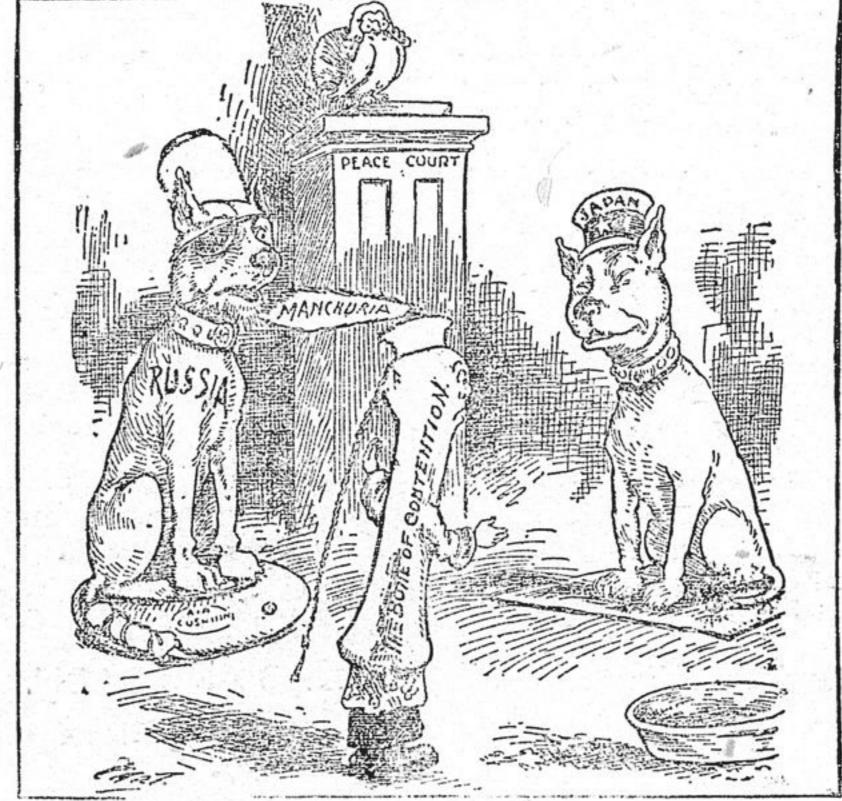
profitable and popular occupation. There are at present over 250,000 hives in Australia, producing from 10,000,000 lb. to 15,000,000 poznd

A French newspaper aggerts that the trade in "artificial" mummies in Egypt amounts every year to more than \$250,000. Most of the up-todate "mummy factories" are located in Italy, but there are also a number of them in Germany and France.

Organ-grinders in Verviers, Belgium, are by law compelled to appear every morning before the police superintendent and play their instruments. The organs which chance to be out of tune must be set in order before a license to play on the streets will be granted.

AT LIAU-YANG.

War is a sorry business, but not ignoble while such stories as those recorded in "From Tokyo to Tiflis" can be told of men. One is of a young lieutenant, known throughout Japan as the hero of Motienling. In the advance on Liau-yang he was among the foremost. Charging with his men through a field of giant millet, he was struck by a splinter of an exploding shell, which tore away part of his lips, shattered teeth and wounded the tip of his tongue. He was ordered to retire, and behind a slight shelter the field surgeon did quick work. Despite his pain, the man was seen to smile, and attempted to mumble some words in his now blurred speech. The surgeon bent down to catch what he was striving The young man's smile deepened, and he made a motion with his head toward his hands and feet. "They are still ther:." he thickly murmured. "I can still fight for my country."



THE BONE OF CONTENTION BUTTS IN.

ger, and if we are to fly, I must countries, where, also, the form in The Dogs-"What has the bone got to say about what we do with it?"