CURIOUS WAR WEAPONS

GROTESQUE MILITARY ENGINES OF THE MUDDLE AGES.

Machine to Break the Enemy's Ranks-Dragon for Attacking Towns.

-which still has its uses, if we are to judge by the recent war in the East sive weapons; the gun and its projec- also cats and pigeons. tiles, the rifle and the mine or torpedo. In the process of their evolution from the stone and club of our prehistoric ancestors an enormous number of contrivances have been invented by the ferscientists.

Some of these, such as the "hand gonne," Edward III.'s "crakeys of war" -the cannon he took against the Scots -and the engineer Giannibelli's "devil ships of Antwerp," may be regarded, writes Lieut.-Col. C. Field in the Scientific American, as being the direct ancestors of the rifle, gun and torpedo if to-day. But there have been hosts of the smaller pieces were generally male piece must have been very disconcertothers, which have either become entirely obsolete after a very short reign, have never "caught on," or, in very many cases, have never had any actual existence outside the plans and ideas of their sanguine inventors.

Many of these warlike appliances especially those belonging to the Middle Ages, are of the most grotesque description. As at no distant date the making of hideous grimaces to strike terror into the heart of an enemy was art by the troops of the Celestial Empire, so in mediæval times the grotesque seems to have been considered at least as much a desideratum as the practical by the inventors of offensive and defensive weapons. So we have such extraordinary contrivances as a "machine to break the ranks of an enemy" and

OTHER DRAGONLIKE EDIFICES.

over the ground and how it brought its formidable array of spikes to bear upon those who had the hardihood to opmediæval cities.

a machine for undermining the walls of said to be no less than 21 feet 3 inches pressed air gun patented by one Stursow, the scorpion for discharging big muzzle. It is called Jaun Kushall, or ager for hurling stones. The onager, was probably cast somewhere in Persia. according to tradition, was an animal | Another India piece, cast by Chulethat had a pleasant trick of kicking by Koomy, Khan of Ahmednuggeer, stones with great violence at its pur- about the year 1500, has such a tremensuers. Again, the Roman warships dous bore that the interior is now fitwere equipped with a spiked gangway ted up as a kind of summer house. A known as a "corvus," or "crow," which cannon made as Bruges in 1346 had a on being let fall upon the enemy's ship square bore and fired cubical shot. grappled her and formed a bridge for Guns were made of all kinds of ma-

set up outside the walls could be thrown by the Scots under Gen. Leslie at the crown down and forward to crush the besiegers as they crowded to the assault. When cannon were invented their names became legion. A ship or a train of artillery contained a perfect zoological garden of birds, beasts and fabulous animals. There were basilisks, drakes, dragons volant, falcons, ser-"double dogs" and partridge mortars.

deal in the newspapers about the training of dogs for military purposes, such | boo in 1259, but only the other day the as scouting, giving notice of the ap- Japanese were making effective use of proach of an enemy and searching for wooden mortars bound around with the wounded. In former days this in- bamboo for throwing explosives into telligent animal was also employed in the Russian works at the siege of Port

diseases known.

known to medical science.

method of

"LETTING SLIP THE DOGS OF WAR'

was to equip them with a pot of blazing resin, a collar of spikes and a jacket of leather scales to protect their backs from the fire, and send them among cavalry, much to the confusion of the

An Arab writer describes some wonderful war dogs which belonged to the Grand Seignior, which he says were as big as donkeys, were clad in rich cloth, The ingenuity of man has been taxed silver collars and neck-rings and a circle crusted with precious stones. The early to the utmost to contrive new and more of iron points around the neck. Some caliver was little inferior to a cannon deadly means of killing and wounding were even clad in armor. They were in clumsiness, as it took three men to his fellow men, and science has now equal to tackling wolves, dragons in carry it and a fourth to fire it. brought our modern weapons to such the fire, eagles in the air and crocodiles perfection that it seems almost impos- in the water; to say nothing of being more portable, and especially when pissible to imagine any advance in their able to bring down a man from horseeffectiveness. If we except the cold steel back, "however slout a fellow he may mounted in the most extraordinary be." Dogs equipped in much the same fashions. Shields or targets not infremanner were also used for incendiary quently had a pistol fixed in the centre -there are but three classes of offen- purposes to set villages on fire, as were with a small grating for aiming through,

arms, all kinds of queer weapons were tols connected with it. Rather a heavy from time to time invented. Many of affair to handle, one would imagine. them distinctly foreshadowed our mod- The Emperor Charles V. had a curious ern repeating and rifled weapons. Not shield which he carried when walking tile brains of soldiers, mechanics and a few revolvers, repeaters and rifled about a night; "a spear came out of the and seventeenth centuries, but as the any thrust was made at the shield, the whole affair had to be made by hand sword's point was catched in it and their cost precluded any general adop- broken." tion of these ingenious devices. The Another surprising mediævel contriearliest cannon were breech loaders, and vance was an iron hat or helmet, which like our modern guns were built up ra- is described as having "two crowns, ther than cast. But even after the 'n- each with four pistols." A volley of vention of cast iron and brass cannon eight shots from an opponent's headto load at the breech. A couple of such | ing-probably to all parties concerned. weapons mounted in a kind of a cact | A curious morlar in the Tower of Lonwere used by Henry VIII. against the don is square in front and has no less Scots, and would appear to have been than nine separate bores. The eighquite practical little affairs. They evi- teenth century was distinctly the epoch dently could be wheeled like hand bar- of sieges. The attack and defence of rows; the sloping shield would afford carefully fortified places was carried out excellent protection to the gunners and in the most methodical and patient probably contained a receptacle for manner.

usual at this time, especially in Ger- and defence of fortified towns.

THUNDER CARRIAGES.

pose its progress, must be left to the of extravaganza in military weapons. imagination. The other machine is There are several accounts of such real or imaginary. Thus we have the boasted several of these monstrosities. arrows from a powerful bow, the on- destroyer of life, by the natives, and plenty of

terials, though all such may be regard-Mediæval soldiers made frequent use ea as freaks or experiments. The leather of the "wolf" in the defence of castles guns invented by an officer in the army and towns. This was a species of huge of Gustavus Adolphus had a certain harrow, made of balks of timber with vogue on account of their lightness. wooden spikes at the intersections, which | Some were effectively used against us battle of Newburn Ford in 1640. They were made by wrapping rope and twine around copper cylinders strengthened by iron rings. They were then coated with plaster, and finally covered with leather. They were very portable, but unreliable and short lived. Guns have been made of wood hooped with iron, pents and pelicans, not to mention not only in ancient times, but quite "ecently in the Philippines, where they We have of late years seen a good were used against the American troops.

The Chinese had a gun made of bam-

warfare, not only as a walch dog. One Arthur. Guns have been made of glass containing water, which interposes beand even of ice. Some of the latter, tween the bullet and the powder charge riage of the Russian Prince Gallitzi in late the escape of the powder gas and than once without bursting." have even been made of the precious | the projectile leaves the barrel. metals. In 1663 there was in the ar-Candia, all of gold and silver."

A GOLDEN CANNON

was captured at Pekin in 1860, and King Thebaw of Burma was the possessor of another, which was also in-

When firearms became somewhat tols were introduced, we find them but there is an account of a shield at With the advent of artillery and fire- Genoa which had no less than 120 pismuskets were made in the sixteenth side of it, beside that in the middle; if

There were many inventions at that travelers and tourists generally to visit, cured." War carts or chariots were not un- time especially applicable to the attack cultivated as a branch of the military many. They generally took the form petard was much used. It consisted of la, Australia, and New Zealand to fav- a longer and more persistent treatment of a rude machine gun, several musket a bell shaped iron receptacle filled with or the Canadian route in visiting Eng- will be required to cure it than if the disbarrels being placed together in the powder and clamped down to a block and, so that they may become acquaint- ease were treated at the onset. centre, and a great array of curly, mur- of hard wood. It was intended to be ed with Canada, its people, and the However, Peruna will bring relief, derous looking spears and halbreds ar- fixed to doors and gates for the purpose many picturesque spots that are to be whether the catarrh is acute or chronic. ranged on either side. The Lyoners is of blowing them in. Another device seen from Vancouver to Halifax. His II you are wise you will keep Peruna on a later type without musket barrels and was the pot a feu or fire pot, which lectures will also be given in the United hand and take a few doses at the first intended for blocking a narrow pas- was a kind of ball or globular jar filled | States. How the former-which appears to called orgues, from their resemblance rected upon them. Loaded pistol bar-outsiders, that is, people in other parts be a kind of mediæval motor car-got to the pipes of an organ, or sometimes rels were attached to these to prevent of the world, who may attend his illus-

en hour. merely a grotesque edition of the mov- pieces of ordance. A traveler once dive into the past to find extraordinary vantages to be derived by making it the able towers that played such an import- stated that he had seen at Brunswick ideas and weird warlike appliances. Our great highway to Europe. ant part in the sieges of ancient and a gun or rather mortar cast in 1411. It modern inventors are quite capable of was made of brass, was 10 feet 6 inches keeping up the supply. Leaving aside Ancient warriors had a great pen- long and no less than 9 feet 2 inches the steam guns, which were intended chant for naming their various warlike in diameter, and was said to be capable to spurt out streams of bullets after the engines and machines after animals, of throwing a 1,000 pound shell. India fashion of a Maxim gun, which were The Story of a Woman Made Well by invented by Perkins in 1824, by Winans Roman "musculus," or "little mouse," One still to be seen at Kubberpore is in the '60s, and the very similar coma besieged city; the battering ram, the long and 5 feet 6 inches around the geon in 1887, none of which realized its inventor's expectations, we can find

EXTRAORDINARY CONTRIVANCES

tack defies any projectile smaller than | Marshville, Ont., is a witness to the idea as anything produced in the Mid- gan says:-"For nearly three years I remember being introduced to the dle Ages. The reservoir helmet, a suffered from anaemia (bloodlessness) French scheme, is about as quaint as and during that time consulted and anything we have noticed. The lower took medicine from several doctors, part of this eccentric headpiece forms without beneficial results. My complexa species of tank or reservoir, into which the water (and pipe clay?) drains and gums seemed bloodless. I sufferfrom the upper surface of the helmet. The soldier's head is therefore kept cool in the tropics-though the weight so poor that I did not care whether I may perhaps be rather trying-and ate or not and I grew so weak, and when athirst all he has to do is to remove his helmet and fill his cup from the tap at the back.

One of the most important qualifications of a good soldier is to be able to march well, but it is doubtful whether the wearing of a pair of spring soled boots, such as a recent inventor has suggested, would add many miles to the day's march. These "seven league boots" have an outer sole, which is pivoled to the one made on the boot just below the ball of the foot. A strong spiral spring is fitted between the two at the heel. To see a whole regiment charging a position wearing these boots and bounding over the ground like kangaroos or wallabys, would indeed Le a remarkable sight.

Another remarkable invention is a cannon that takes completely to pieces It consists of a series of strong steel rings which fit over the inner tube. which is, of course, rifled internally Externally it tapers slightly, so that it is bigger and thicker at the breech end The rings slide down on this tube in their proper order, the central ones having projections to form the trunnions of the piece, and are screwed tight up by means of four rods and nuts fitting into a massive framework at either end of the gun. The rear one of these carries the breech closing mech-

Invisibility has been pretty well secured by the invention of smokeless powder and now inventors are trying soundless explosion into the bar-This was effected in ancient days, according to an Arab writer, the "powder which explodes without sound," made at El Meidaun, to do away with the noise of the explothe ashes of human bones taking the place of charcoal. The making of this was handed over. propellent is now, at any rate, a lost art, but the same object is to a certain heartily whilst telting his wife the joke, used Baby's Own Tablets and find extent attained in other ways.

Col. Humbert of the French army has invented a species of tube which, affixed bring one?" to the muzzle of a field piece, prevents either flash or sound, while a rifle invented in America has a big cartridge it is difficult to amuse a baby.

made for saluting purposes at the mar- in its base. This is supposed to regu-1739, are stated to have been "fired more so minimize the report without dimin-Guns | ishing the force and velocity with which senal of Verona "a great gun found in make to the weight of the ammunition is quite enough to put the weapon out of court for military purposes.

> ACROSS CANADA IN THREE YEARS. Remarkable Trip Made by an English Lecturer.

> A walking geography of Canada arrived recently in Vancouver in the person of Mr. H. Haywood, a fellow of the Royal Geographical Society of London, and lecturer, with Canada as his

To master his subject Mr. Haywood has travelled from Halifax to the Terminal City by daylight, the tour having taken him three years. He has travelled thousands of miles by rail, steamer, and stage, also many hundreds of miles on foot, visiting large and small centres, new and old settlements, farm and mining districts, lumber camps, industrial centres, places that would afford him an opportunity of obtaining particulars respecting the resources of the country.

tic to Pacific, its means and methods "I write you a few words to express to of transportation; its population; its pro- you my satisfaction at being cured. I ducts, and general resources; its cities was afflicted with catarrh of the throat so that he may make use of this knowledge | greatly discouraged. I had a bad breath during his lecture tours round the world. and bad taste in my mouth in the morn-The views, with which his lectures are ing. to be illustrated, will show the beauty "I took treatment for some time withspots that are of note and interest, be- out obtaining relief. At the advice of sides street views, cities, parks, rivers, friends I tried Peruna and the results waterfalls, public institutions, and such have been highly satisfactory. At the scenes as would be an inducement to end of four months I was completely

He also desires to induce travelers | Neglected catarrh becomes chronic. The from Bombay, Madras, Ceylon, Calcut- Having developed into the chronic stage,

sage. Sometimes a whole sheaf of mus- with old tarred rope, which was thrown He will try, while in British Columket barrels were fixed upon a stand or upon the enemy's works, to light them bia, to obtain a perfect collection of carriage. These contrivances were up at night and enable fire to be di- views descriptive of the country, so that any one from picking them up and ex- trated lectures, may gain a good idea of tinguishing them. The pistol a reveille British Columbia and its many beauti-Monster cannon were an early form | could be set to explode a mine at a giv- ful scenes, with which the whole Province is so richly endowed; its great re-But all said and done, we need not sources, stores of wealth, and the ad-

DAILY FADING AWAY.

Dr. Williams' Pink Pills.

Bad blood means bad health. That is why Dr. Williams' Pink Pills mean good health. They actually make new, rich blood which strengthens every nerve and every organ in the body. That is why people who use Dr. The wire bullet proof screen behind Williams' Pink Pills feel bright, active which the soldier advancing to the at- and strong. Mrs. Arthur Hannigan, a three-pounder is as far fetched an truth of these statements. Mrs. Hanniion was of a waxy appearance, my lips ed from headaches, dizziness and palpitation of the heart. My appetite was was so much reduced in flesh that my friends thought I was in consumption. As I have said, I doctored without benefit, until the last doctor whom I consulted advised me to try Dr. Williams' Pink Pills. I followed his advice, and less than a dozen boxes have made me shuffling down Regent Street the threadthe well woman I am to-day. All the symptoms of my troubles have vanish- lining his bent back, and it struck me ed and I enjoy the very best of health. I know there are hundreds of women climbed the bus that passes the palace in who are drifting into the same condition I was, and to all such I would strongly urge the immediate use of Dr. Williams' Pink Pills."

> upon the bowels; they do not tinker with mere symptoms; they go right to the root of the trouble in the blood. That is why they cure common ailments like rheumatism, neuralgia, kidney trouble, headaches and backaches. St. Vitus dance, and the special ailments that afflict so many women and growing girls. Sold by all medicine dealers or by mail at 50c. a box or six boxes for \$2.50 from The Dr. Williams Medicine Co., Brockville, Ont

CAUGHT HIM.

Five young men went into a shop the other day to buy a hat each.

the shopman said, "Are you married?"

They each said, "Yes." can truthfully say he has not kissed

he was married."

party. "I've won it."

"When were you married?"

but suddenly pulled up when she said: them just the thing to keep children

CHRONIC CATARRH NOSE AND THROAT

" At the Advice of Friends I Tried Pe-ru-na and the Results Have Been great addition which this system would Highly Satisfactory." - So Writes Mr.



Mr. Haywood's aim has been to thor- TR. RAOUL PILON, 116 Rue Notre oughly know the country, from Atlan- Dame, Lachine, P.Q., Can., writes: and towns, and what they are noted for, and nose and suffered much. I was

appearance of a cold or cough, and thus save yourself both suffering and ex-

Patients have the privilege of writing to Dr. Hartman for free advice. A book on "Chronic Catarrh" will be sent upon request.

Ask Your Druggist for Free Peruna Almanac for 1907.

THE SHABBY GREAT.

Eminent Nobleman Shuffles Down Regent Street in Raggy Apparel.

It is one of the privileges of being great that one can afford to have samples of by-gone repasts on one's waistcoat, writes Mrs. John Lane in an article on "The Tyranny of Clothes," in the January Fortnightly.

The Englishman, she says, is not only the apotheosis of the perfectly dressed, but he can reach a degree of shabbiness which is phenomenal. Not the poor and obscure, but the rich and usually the great. Who has not seen the great shabby and spotty to a degree?

"Before I had learned by experience, shabbiest, spottiest kind of old gentleman in Regent Street, who was shuffling along in company of an aged, greenybrown umbrella. He looked as if a shilling charitably bestowed would have been a godsend. I took a hasty inventory of his spots, his draggled necktie, his frayed waistbands, his down-trodden boots, and felt rather superior.

"It was, therefore, with a start that I heard a very famous name indeed, and found myself shaking the limp hand of a very eminent nobleman. He saw that I was deeply impressed, but distinguished though he was, he could not guess the real reason. /I watched him bare seams of his coat boastfully outthat he looked modestly triumphant as he which he lives.

"If ever a man was tyrannized over by a mean umbrella, a threadbare coat, and frayed trousers—the kind that hitch up Dr. Williams' Pink Pills do not act | behind-that was the man."

WHEREIN THEY DIFFER.

"Character." remarked the thoughtful thinker, "is one thing and reputation is quite another."

"Wherein do they differ?" queried the

very young man. "A good character is a luxury," explained the T. T., "but a good reputation is a necessity.

ADVICE TO MOTHERS.

If you have a baby or young children in the home always keep a box of Seeing they were in a joking mood, Baby's Own Tablets on hand. Don't wait until the little one is sick, for sometimes an hour's delay may prove "Then I'll give a hat to the one who fatal. This medicine cures stomach twoubles, constipation diarrhoea, simple any other woman but his own wife since fevers and makes teething painless. If children are sick Baby's Own Tablets "Hand over a hat," said one of the make them well; and better still an occasional dose will keep them well. The Tablets are good for children of all "Yes'erday," was the reply, and the hat ages and are guaranteed to contain ro opiate or harmful drug. Mrs Joseph One of the others was laughing Ross, Hawthorne, Ont., says:-"I have "I say, John, how was it you didn't well." These Tablets are sold by all medicine dealers or you can get them by mail at 25c a box by writing The, It's as easy to annoy grown folks as Dr. Williams' Medicine Co., Brockville, Gnt.

and strengthening nerves and muscles. Use Scott's Emulsion after Influenza.

Invaluable for Coughs and Colds. ALL DRUGGISTS; 50c. AND \$1.00,

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to call it, is one of the most weakening

Liver Oil and Hypophosphites in easily di-

gested form, is the greatest strength-builder

the system, making new blood and new fat,

Grippe or Influenza, whichever you like

Scott's Emulsion, which is Cod

It is so easily digested that it sinks into