HISTORY AND INDEX OF ARTICLES ON IMPLEMENTS OF WAR, RIFLES, SHOOTING, AND EXPERIMENTS IN GUNNERY, PUB

It frequently happens that many useful improvements are invented which do not come in use for years afterward; and, indced, not until some great event, or some chanse in linsiness, furnishes a field for their operation, and a demand for their introduction. This is the case, we believe, with many inrentions relating to the art of war which have been illustrated and described in the columns of the Scienthele Amemedn. Several of these have been forgotten in the peaceful and tathyuil times in which we have hitherto livel, and during the urgent demand which nowrings throurn the land for the most effective war implements, many persons may be cogitating upon subjects new to them lint old to us: while others who would glatily avail themselves of all the information which they can obtain on the subject, m'y be ignorant of the lest source where to seek it.

In order to meet a want felt at this time, we give the following historical sketch and index of war and shouting inventions an they have appeared in successive volumes of the Scientific Americis:-
A camnon operated by two men, to project bullets in a perfect stream, by compressed air; illustrated and described in Vol. I. (old series), on the 14 th of May, 1846.
Fitggerald's wrought iron camnon, formed by a series of concentric Hat rings, bolted lonşitudinally together by lonir rods: illnstrated on page $2: 30$, Vol. II., April 3, 184 .
Expanding lullets; pare 20 , lol. III., October !, 1847. When dischased from a camon it branches out into hugeknives, and cleaves everything before it. It is more terrible than the chariots of old Philistia.
Nichols' electric gun: page 1id, Vol. III., Fehruary 19,1848 . A self-charger with gun-cotton, ignited by electricity. An ingenious and destructive war engine.
Gum-cotton ensine : +nstatins on pare 1an. Vol. III., February $24,1848$.

Hubbell's patent breech-loading musket: pase 108, Yol. IV'., December:3, 1848. 'This fire-arm was used hy several of our regiments during the Mexican war.
Prussian breech-loating ritle, called " Ziind Nadel;" page $1 \stackrel{1}{2} 4$, Vol. V., Jmmary ;, 1850 . 'Ihis wats the breech-louldine rifle used by the frusian army durines the Holstein war.
Gharpe's breech-loading riffe; page 193, Vol. V. March 9, 1850. This rifle has a vertical sliding breech, operated ly a toggle-joint lever.
Sharpe's rifle, with Maynard's primer: page low, Vol. VI., March \&, 1א.jl.
litle shooting, illustrated with several designs of several bullets : page 173 , Vol. VII., February 14 , 185٪. This article contains an interesting account of ritle practice in the french army.
hilled cannon at Woolwich, Enerlaml: pace 1!a, Yol. VII., March 6, 185:.
An article on rifle shooting, illustrated with two targets, by John Chapman, Esif., author of the "American Sifleman." It 110 yards distance the ten shots fired were phaced within a circle of 1$]$ inch in thameter : at $2: 00$ yards distance, the ten shots were placed within a circle of $2:$ inchers diameter. $1 W^{\circ} \mathrm{es}^{-}$ son rifle, with globe sighlits, wats wed. Pare :003, Vol. VII., March 13, 18: 2.
Iarston's loreech-loading rifle and pistol ; illustrated on page 129, Vol. VIII., January 8, 1853. These fire-arms load at an opening in the side, witt a cartridge. I ramrorl on a togrele-jointed lever forces in the charge, which has a leather sabot uponits end.
Beverly's breech-loading. self-priming rifle; page 188, Tol. IK., February 2., 18.5. The charge chamber swings up on a pivot joint, and the cartritge is plated in it, separate from the batrel. A string of percussion caps follows behind the thatse chamber.
 by Al. Alcock: illustrated on page $2 \cdot \frac{1}{2}$, Vol. IX. March as, 185t.
Perry's brech-loading rifle: page 4 , Vol. X., september 16, 1854. The chamber of this rifle swings on a joint.
The Lancaster gun, with elliptical, spiral grooves represented on pare 168, Vol. X., Ieluruary $b, 180^{\circ}$ It was used in the Crimuan war.

Extracting bullets from wounds, by an air pump; described on parge 186 , Vol. X., February $24,18.1 .5$. Ihis invention deserves the attention of army sur Etons at the present time.
.Newton's breech-luadiner pistol; illustrated on
$\because 0$, Vol. X. . March $\because 4,18.5 .5$ Loads with cart ced in by a breech pin.
fle bullets; engraving on page -4.9, Vol. X., April 1S, 18.5. A lead band is shownon an is on conical bullet, for camon. It is also mentioned that T . Houghton, of lhiladelphia, obtained a patent on the fth of Aprii, 18.1.2, for an expaming leelt for rifted guns.

Perry's breech-loadints rifle, improved ; pare : 3 (t, Vol. X, June :, 18.5. TJ:e breech of this rifle is perfectly gas-tight to prevent leakage.
liussian infernal machine, to blow up linitish frigates at ('ronstadt ; illustrated on page 368, Vol. $\mathrm{N}^{\circ}$. July $28,189.5$. These mathines were to be dischatreed by the wires of a gal vanic battery.
Whitney s repeatines pistol ; engraving on page 40t, Vol. X. September 18, 185\%. Several charge chambers may be kept luaded for this pistol, and 100 shots fired rapidly in succession.
Russian infermal torpede ; illustraterl on pare 5 : Vol. NI.. September 15, 185.5.
New explosive shell ; engraving on page 21 , Vol. XI., feptember $2!$, 18.5 .5 . This shell has an expanding lead band on its bottom, to adapt it for rited cannon.
English breech-loading camnon, with spiral shot for smooth bores ; engraving on page 400 , Vol. NI., August $39,18.50$.
Newherrys breech-loading rifle: illustrated on pase !e, Vol. XII., November 2! 18.56 . This is a self-primer which cocks the hammer automatically.
(ireat centrifugal war engine of lieynolds: described on page 147 , Vol. XII., Jannary $17,18.9 \bar{T}$, by one of the gentlemen who made experiments with it. Account of trials at West Joint and Washington with breech-loading ritles; pages $6,11,4!1,113$, :3! 10 , [11], 40r, Vol. XiII.
('aptain Xorton's gossamer cartridge; illustrated

Newbery's revolver pistul; illustrated oh pacr. 80, rol. XII., November 18, 18.58.
The above are all included in the old series of the cientific Americis.
Engrlish lorecth-loadiug ammon, represented to be Aminstrong's gron; illustrated on parge 16, Vol. I. (new serics), July $2,185 \%$.
Shull's breech-loading rifle; illustrated on page
60, Vol. I., september 3, 1859. It has a pricker for opening its cartridge.
Gum-cotton, how to make it ; pige 84, Vol. II., February $4,1860$.
C'aptain Brown's breech-loading cammon ; illustrated
on page 210 , Vol. III., October 6,1860 . This cammon has lately been brought before the authorities of thole Island. by the inventor, who resides at Warren, J. I.

Clay's hrech-loading steel camnon : engraving on page 48, Vol IV., January 19, 1861. This is a more simple breech-loading camnon than Armstrong's. Two 100 -pounders of this character have lately been ordered of Mr. ('lay by the British govermment.
Spiking camnon; illustrated on pare f:3, present volume, Jannary 1:t. 1sif1.
S., Ciloire, the French iren-rased frisate: on page 97 , present volume, February $16,1861$.
The broken and dismounted Armstrong erm ; illustiated on page $0: 3:$, present volume, April 18,1 stil.
Path of conical bullets; illustrater on page 2?4, present volume, April 19, 1861.
Army rifle exercise, and forms of bullets used for dificrent rifles; illustrated on page ens, present volume, May 11, 1861.
Hotchkiss' $x_{i} \cdot b$ ulina ranmon bullet ; illustrated on page 293 , present volume, May 11, 18fil. with target showing the shouting with it.
Explosive rifte hullets; engraving on pase 301. Maly 11, 1861
Rodman's monster camon, illustrated on pages 305 and 306, May 18, 1861.
We have in hand a number of other subjects pertaining to war, which rill be illustrated in these columns from week to week.

Among the number of seemingly excellent invention; in ordnance, we shall illustrate, in our next
issue, an engrating of (G. B. Brayton's breech-loading camnon.

## History of Our Flag

The flag, during the confederation, wats endorsed hy the congress of that body, by a resolution adopted on the 14 th of June, 17:7, in the following words:-
lewowed, That the flas of the thirteen lonited States be thirteen stripes. alternate red and white: that the union be thirteen stars, white in a home tieh. representing new constellation
' his thag continued in use under tha' ('sssistiation until the thl daty of duly, 1818, hatior passed with unsullied honor throngl the war with (ifeat britain, from June, 1812 , to its close by the ratification of the treaty of (ihent, in felmary, 181\%.
In the year 181s, the number of sitates in the Inion amounted to twenty, and on the 4 th of $A$ pril, 1818 , the congress of the linited sitate's passed a law in the following words:-

Be it enacted, de.
serros 1 , That from and atter the fourth day of July next the flag of the Cnited states he thirteen lomeram, stripes, alternate red and white: that the mion be twenty stars, white wh athe tield.
 into the C nion, ane star be added to the mion of the flag, and that such aldition shan take cffect on the furth day
so stands the law at this day, amb is unalterable but by law.

On the fourth of July, when the courress of the United states next assembles, the state of hamsas will, according to law, appear as a new star in the Flag of our Lnion.

## Armstrong Guns at the West Point Foundry.

We have leen shown a complete set of working drawings of the Amstrong grm, which were plocured in England by the liussian govermment, and sent to the West l'oint Foundry, at Cold Spring, in this State, where a sample gun was malde and forwarded to linssia. The gim was triced here before it wats sent away, and operated so satisfactorily that the owners of the West Point Foundry are commencing the manufacture of these famous weapons for the supply of our army. It is suggesterl that the destruction of outlying rifle men, mentioned by the Mermies Mugezine as having occurred in China, was the fanlt of the shot and not of the gim ; while the ease with which the cannon was broken in pieces by shot from an ordinary ninepounder showed merely that the picce wats made ton light. For obvious reasons, we are not at liberty to xplain the process of making the gun, but will remark that it is entirely difterent from that published in the English papers.
J.anext Grice Apontments. - We are happy to learn that Inr. Thomas Intisell has been promoted to the position of Chief Examiner in the Chemical Department. Dr. Antisell has performed the duties or this position for a long time, and it is creditable to Commissioner Holloway that he has recognized the services of an accomplished otticer, one of the most respected and faithful men in the oftice. John J Coombs, of the District of Columbia, hats leeen ap. pointeal (hief Examinter in tlat latent Oftice.

Shotrden Arms! The scene in front of our oftice is animated in the extreme, and furnishes a daily index of the military spirit of our people. In all the open space about the barracks, sumads of voluntecers are constantly drilling in the presence of a large crowd of spectators, and it is gratifying to see the spirit with which the soldiers enter upon their peparations to take the field. So far as we know the men they are true, and will not be found wanting when the hour of trial slaall call them to duty.

Tire first use of artillery was according to some historians, ly the Inoms at Alsesiras in spain. The Venitians are said to have heen the first to use camon at sea, in 1975, against the Genoese.

Wran military authorities, the meaning of the right lank of a river is the bank at the tight hamd in loon: ing dome the stream.
'A stand of arms,' properly speaking, is a com plete set of arms for one soldier, which would include the bayonet, musket, and its appurtenances.

Tue Bank of Paris has exchanged thirty millions of gold with Ruseia for an cequal amount of bilver.

Colt's Armory-The Colonel on the side of the Government.
Some suspicion having been cast upon the loyalty of Colonel Colt, growing out of the fact that he has heretofore made many arms for the South, it is due to him to state that, although decidedly opposed to the election of Mr. Lincoln, yet as soon as he heard of the insult to the flag at Fort Sumter, and saw the proclamation of the President calling for troops to put down treason, he at once tendered the use of his armory to the government at Washington, oftering to the President the complete control of its entire production, to be used in arming troops to defend the constitution and preserve the Union.

And, beside this (as stated in our last number), he presented to the State of Connecticut over $\$ 50$, 000 worth of his recently improved breech-loading rifles, sufficient to arm a regiment of 1,000 men, and tendered his personal services, together with one full company of mechanics from his armory, skilled in the use of this weapon, to drill and instruct the soldiers in their use. This patriotic offer has been accepted by Governor Buckingham.

The rifle is a terrible weapon; each one carries five charges in the cylinder, and at the commencement of an engagement this regiment of 1,000 men can, in a few seconds, pour in a most destructive fire of 5,000 Minie balls, and afterward load and fire faster, and with more accuracy, than can le done with any muz-zle-loading rifle ever used in war. This corps is to be called the First Connecticut Regiment of Colt's Revolving Rifles.
As our readers are aware, Colt's armory is situated at Hartford, Conn., and is no doult the most complete and extensive establishment of the kind in the country.
The perfection of his machinely for making the various parts of his different arms is almost beyond the power of the imagination to conceive. So perfect is it in the performance of the uses to which it is ap. plied, that it seems to be endowed with the power of reason. He is now running his machinery day and night, and creating daily hundreds of the most terrific engines of destruction ever invented.

His improved revolver, which received such high commendation from a board of army officers in May last, is certainly one of the most terrible and efficient weapons for defensive or offensive war ever used by man.

Unused to Nrms.-The Savannah Nex's says "not one in a thousand of the filthy multitude who are shrieking for war in New York has ever seen a gun, except in a shop window." We advise the editor not to believe that strry, and we presume he does not, for it is not true. New York city not only boasts of some of the finest drilled military companies to be found in the world, but her numerous companies of target shooters, now "shricking for war," are thorough adepts in the art of plugging the bull's eye, and can stand as much of rough and tumble as any other set of men. 'The bravery of the Southern men is not denied, and they will make a great mistake if they suppose that Northern men can't stand fire. History and experience teach a different lesson.

General Butler and a Baltimore Commiteee-A committec of Union men from Baltimore visited the Maryland Legislature lately, to protest against the public safety bill there pending. On their return they stopped at the Relay House and called on General Butler, and had a pleasant interview. The General said that like them he was opposed to Mr. Lincoln and the Republican party in politics, but that had nothing to do with the present crisis. The Union must be maintained, and the government upheld until any soldier in the country could walk anywhere in any state with perfect safety under the protection of the $\Lambda$ merican flag. This would first be done, and afterward politics could be discussed.

Mr. Janes Gordon Bennett, Jr., has offered the government the use of his yacht Rebecca. He agrees to fit her up with Dahlgren guns and command her, provided the government will pay the expenses of seven additional seamen.

The amount of paper manufactured in Great Britain the past year was $223,575,285$ pounds. The net produce of the duty was about $\$ 6,500,000$.

## THE PATRIOTIC CONTRIBUTIONS.

Fiee Gift Contributions of the People-O
$\mathbf{\$ 2 3 , 0 0 0}, 000$ Advanced for War Purposes.

| Allany | \$16, | Milwa | 31,000 |
| :---: | :---: | :---: | :---: |
| Auburn, N . Y | 4.000 | Marblehead, Mass.. |  |
| Abington, Mas | 5,000 | Malden, Mass......... . | 2,000 |
| Amesbury, M | 5.000 | Madison, Ind | 6,0(0) |
| Acton, Mass | 5,000) | Mount Holly, N. J...... | 3,000) |
| Boston, Mr | 186,003) | Morristown, N | 3,(10) |
| Brooklyn, |  | Mystic, Conn | 7,010 |
| Bridgeport | 31,000 | Madison, Wis........... | 9,000 |
| Burlington |  | Marlboro', Mass........ |  |
| Bath, Main | 10,000 | Marshfield, Mass..... .. | 5,010 |
| Batavia, N . Y | 4.1604 | New York (State) |  |
| Buffalo, N . | $110,14 \times 1$ | New Youk (rity) | 2,173,000 |
| Burlington, N | tha | New Jersey (State | 1,000,000 |
| Bordentown, $\dot{\text { N }}$ | 3.1441 | Mewark, N. J........... | 136,400 |
| Bradford, V | 2,01000 | New Haven, Conn. ${ }^{\text {a }}$. | 30,000 |
| Bridgeton. $\mathbf{N}$. J | 1,1100 | Norwich, Conn. ${ }^{\text {a }}$...... | 13,100 |
| Bedford, Mass |  | New London, Comm.... |  |
| Bennington, | 10,000) | New Brunswick, N. J... | 2, 20040 |
| - Barre, Mass. | 3,100 | Needham, Mass | 3, 3 (0x) |
| Bedford, N . S . | 1, 1 (10) | Nowth Andover, Mass.... | 100 |
| Rrunswick, Maiou | $1: 1010$ | Noblesville, Iud |  |
| Binglamiton, N. Y | 110000 | New bury | 3,1000 |
| Connecticnt (Sta | 2,100,1000 | Newburypo |  |
| Cincimnati, Ohi | 2810000 | Ohlo (State) | 000,000 |
| Charlestown, Mass | 10,000 | Oswego. N. Y........... | 13.000 |
| Circleville. | 2 200 | Pennsylvania ştate) | 3,500,0010 |
| Clinton, Ill | 5,000 | Phlitelphia, Pa...... | 3310,000 |
| Cohassett | 1.000 | Plymonth, Mass....... | 2 (104) |
| Cinton, N . Y | 1,000) | P'oughkeprsie, N. Y..... | 10,000 |
| Concord, it | 4,000 | Pipta, Oni | 20,000 |
| Concord, M. If. | 10, 1000 | Paterson, N.J......... | 10,100 |
| Canandaigua, N. Y..... | 7 |  |  |
| Canton, Mass | 5.000 | Princeton N. J......... | 2,0\%10 |
| Cass county, Ind | 6,0K4) | Palmyra, N. Y........... |  |
| Cam. \%Am. AR . Co | 10,000 | Quincy, Mass........... | 10,000 |
| Detroit, Mich | S0,004) | Khode Isla ad (State).... |  |
| Dunkirk. | 20,000 | Ruchester, N. Y. ....... |  |
| Dower, $\mathrm{N} . \mathrm{H}$ | 1u(0)U | Rocsland, Maine....... | 110,000 |
| Damariscotta, M | 3,040 | Salem, Ma |  |
| Elizabeth, ${ }^{\text {S }}$ | 11,000 |  | 2,0utu |
|  | 25,100 | Seneca Falls, X. Y...... |  |
| Framsiote, $\mathbf{T}$ | 15,000 | Stockbridge, Mass....... | 3,000 |
| Fisll hivel | 10,000 |  |  |
| Flerningto | 5,000 | St. Albans, | 10,000 |
| Fond du Lac, | 4,000 | Sag Harbor, N . Y | 3,000 |
| Gloucester, Mass....... | 10,000 | Saratoga Springs, N. Y.. | 2,000 |
| Glen's Falls, N. Y | 10,000 | Southisoro', Mas | 2,001 |
|  | (10, |  | B, (w) |
| Greorgetown, Mass | 5,000) | Shelburne, $V$ vt | 1,000 |
| Galena, III | 1,0001 | Schaylkill county, Pa... | 30,000 |
| Hudson, N . Y . | 4,(101) | Suttom, Mass............ | 6,000 |
| Ifanilton, Ohio | 1,100 | Troy $\mathbf{N}$ Y Y............... | 4x,100 |
| Hobeken, N . | 2 2,(un) | Toledo, ohio............ | 5.1600 |
| Hornellsville, N | 1,000 | Taunton, Mass.......... |  |
| Hartiord, Com, | 6t,000 | Upper Sandusky, OLio.. | 14,000 |
| Ilinois (State) | 2,004i, 0 ,000 | Vermout (State) ........ |  |
| Indiana (statr) | 1,0100, 1000 | Wisconsin (Sta | 225,(00) |
| Iowa (state) | 100,0010 | Weymouth, Mass....... | 5.000 |
| Ithaea, N. ${ }^{\text {r }}$ | 10,000) | Wilmington, | 3,100 |
| Indianapolis, I | 5.0010 | Waynesvile, oh | 2,000 |
| Ipswich, Mass | 4 , (ma) | Waitha | 5,(4)0 |
| Jersey Cuy | 32.400 | West Cambridge, Mass.. | 10,000 |
| Janesrille, W | 6.()k0 | Woodstock, Yt........... | 1.000 |
| Kenton. Ohn. | 2.0100 | Watertown, Nass....... | 2,000 |
| Keene, N . If | 10.10 kH | Waterfurd, N. Y........ | x, hou |
| L- :nit, Ms |  | Watertown, N. Y........ | 3,000 |
| Leck putt N. | 2,000 | Warsaw, N' Y............ | 3 3,610 |
| Lawrene Ma | 5,100 | Westboro', Mass.......... | ¢,000 |
| Lowell, Ma | 8,000 | West Troy, N. Y......... | 7,000 |
| Landon, Ohio | 5,000 | Woburn, Mass........... | $\stackrel{5}{5,1000}$ |
| Lebanom coin | 10,(1)0 | Weobstrr. Mtass.......... |  |
| Maine (State) | 1,341.7)00 | Xenia, rio |  |
| Muhigan, rarious places | [0, 0 Oro | Zanesille, ohio | 3,000 |
| Total |  |  | T, |

The Prin and tur Sword.-In-the great campaign now opening the press will have its share of the work to perform. Some of our brethren will remain at home to chronicle the stirring events of the day while others will drop the pen and grasp the sword. Among the many incidents of the kind we record none more pleasing than the case of Joseph M. Barr, editor of the Commonurealth, Wilmington, Del. He announces his purpose in the following gallant style :-
The editor of this paper is going to the war, having raised a company, and been appointed an officer of the the regiment, and continue with it during the campaign He will keep up a regular correspondence with his paper : and those who wish to know all about the sayings, doings,
incidents, accidents, exploits, history, \&cc., of the "Blue ncidents, accidents, exploits, history, \&c., of the "Blue Hen's Chickens" who go to War, had better subscribe once for The Commonecalth.

Taking out all the Grease from the Axis!-A gentleman who has spent some days in the region of the oil-wells in Pennsylvania, says that, in his opinion, the government of the United States, or some other mundane power, ought to interfere at once and put a stop to further boring and pumping for oil on this continent. He is quite certain that the oil is being drawn through these wells by the bearings of the earth's axis, and that the earth will cease to turn when the lubrication ceases. Such a suspension would beat anything that ever agitated Wall-street, and the consequence will be too great for ordinary minds to contemplate or comprehend. It had better be attended to at once.

The great leading builders in London have resolved hereafter to pay their workmen by the hour instead of the day; 15 cents an hour for experienced hands and 9 cents for laborers.

The Spanish government is building ten additional ste am sloops of war for the suppression of the slave tradc on the coast of Cuba.

## Treatment of Grape Vines.

The Irish Agricultural Review contains the following very sensible information on this subject :-
The vine flourishes on the mountain sides, in rocky soils; so nature points clearly to a dry situation as best adapted for its roots. The border should (if circumstances permit) stand considerably above the surrounding ground, with a good inclination to the south. The ground should be excavated to the depth of three feet from where the intended surface of the border is to be, and the bottom sloped with a gentle inclination to the outside of the border, with a drain sunk along the front, say six inches below the fall of the border. This drainage should have an inclination to either end of the border, or should fall from both to the center of the border, and open into a good drain, to take the water from it ; the object being to keep the border perfectly free from stagnant water. If circumstances will permit of it, the border should be at least fifteen feet wide. The following compost will be found well suited for the vine. Three-fourths of good sound turfy loam of medium texture, from a dry pasture, and full of vegetable fiber; add onefourth good rotten manure, and bones, charcoal, or any charred vegetable matter, and lime rubbish sufficient to keep it thoroughly open. Such a soil will keep the vine in a sound, healthy condition for a number of years. Many grape growers use a much richer compost, and add a large quantity of animal matter ; the result may be splendid grapes for two or three years, but the vines will ultimately become plethoric and almost useless. Bones should be introduced largely, as the vine seems partial to them, and as their decomposition is gradual, they naturally supply the plant with nutriment, in such quantities as it can assimilate for a great number of years.
The mildew on the vine, like its fellow, the potato discase, has become epidemic this last few years, attacking the vine under all circumstances, and in all parts of the world, wherever grown. It is a parasitic fungus ; but where it comes from seems a puzzle. It generally makes its appearance wholesale, and with out warning. Flowers of sulphur seems to be the best, and most simple remedy for it. As soon as detected on the leaves or fruit, lose no time in dusting the parts affected thoroughly with the sulphur, the first application will generally destroy it ; but a sharp look-out must be kept, as fresh attacks may be expected when it has once made its appearance; a deadly war must, therefore, be waged with it.
[The Black Hamburg and other popular varieties of the European grape are entirely different from native American grapes, such as the Isabella, Catawba, \&c.; the pulp of European grapes being soft and melting in the mouth. On this continent, east of the Rocky mountains, none of the European varieties of grape can be cultivated successfully in the open air, though they are produced in the very highest perfection in glass-houses, cither with or without artificial heat. The season is long enough to ripen them in the open air, but they are very subject to mildew, and even under glass a free use of sulphur is generally necessary to prevent this blight. Within a few years the same disease has made its appearance in the vineyards of Europe, and is spreading extensively. Spanish priests carried the best kinds of grape vines known in Europe to California nearly 300 years ago, and they have flourished there ever since. Sometimes 20 tuns are carried at one time on a steamer from Los Angeles to San Francisco, where they sell at 12 cents per H ., while the same varieties are retailed in New York at one dollar and a half per $\mathrm{H} .-$ Eds.

The First Yermont Regiment.-Directly in front of our windows in the Park, we see the grey uniforms of the first Vermont regiment. They are a hardy, intelligent, robust body of men, 850 in number, inured to labor, and quite as familiar with the rifle as the famous hunters of Kentucky. They make no boasts, but modestly invite the attention of the country to their conduct in the hour of battle.

Great Waterfall.-During the late expedition of Dr. Livingstone up the Zambesi, in Africa, he measured the hight and breadth of Victoria falls on that river. Their hight is 300 feet ; breadth, 2,000.

The savings banks in England have deposits amounting, in the aggregate, to two hundred millions of dollars.

