# EUROPEAN ARMIES STRUGGLE FOR SUPREMACY IN MILITARY SIGNALING.

Devices That the Next War Will Bring Into Use.

In all European armies now great attention is being paid to the signal corps, and each nation every now and then vaunts itself over the others with the announcement of the discovery of some new method of signaling, says the New York Press. The scaller validable systemy of mili-kind in the German army is the sema-

Santiago was only a qualified success, but it has not diminished the ardor with which European powers are seeking to solve the balloon problem. The bravery and the efficient work of the signal service men in the war with Spain received high praise from all the foreign attaches and from our own the foreign attaches and from our own Government, but Europe seems loath to take up our system of signaling. With every nation on the Continent of Europe military signaling is a military hobby, and each rides its own especial hobby hard, and spends great amounts

hobby hard, and spends great amounts of money on it. All over Europe experiments are going on constantly in military signal-ing. Every bright young officer and every orank regards the signal corps as the body which shall make his fame and fortune by utilizing his invention. And it would seem as if every King and Emperor and every field marshellay awake nights to think up some new invention for that braneh of the service. service.

No matter what branch of the ser vice has to go short on funds in a Eu ropean army, the signal corps gets what money it wants. That the signal service of an army is of the first importance is not to be denied, and our own corps will compare in ef-ficiency with any in the world. But in Europe the corps is a fad.



WIGWAGGERS OF THE FRENCH PIONEERS.

The German Emperor is credited with having said the other day: "So important will be the part played by military telegraphy in the war of the future that the army having the most efficient system of signaling will hold a trump card which may be of most decisive influence on the conduct and success of the war." success of the war."

success of the war." Another German authority says: "Electric telegraphy, with and with-out wires, is a main branch of the service, and not only with the "pioneers," but with every troop, in-fantry, cavalry, artillery and railroad-ers. The German army, adhering to its principle of meeting the enemy on the latter's own territory. must needs the latter's own territory, must needs possess greater alacrity in and better facilities for building electric tele-graph lines than the French and Rus-sians, the Austrians and Italians, who might be eager enough to keep war out of their own territory, but who ore helpind Germany in the randity of

phore, which is made more efficient by Redi's system of cones. The semaphore proper is quite an ancient de-vice. It was first introduced by the French in 1794 for conveying in-telligence from Paris to the armies on the frontier. As the illustration shows, the German army semaphore is



LIME LIGHT SIGNALS IN THE RUSSIAN ARMY.

similar to our railway signal poles and is worked by arms. There is also a telescope in the top which commands the mast can be inserted at any place. As nicate with each other at a distance of fifty miles, whether they have a tele-scope or not. General Roberts once sent 1200 telegrams by heliograph in a single day. That was in Egypt, where the sun is very strong. The English mode of signaling by flags differs from the French in minor described in the sum to be the sum of the to the cone, each one represents a number, 1, 2, 3 or 4. If 1 and 4 are down, that means 5, and similar additions are made with the other

figures. Signals can also be given without details, which are kept secret. But this secrecy doesn't amount to much, the cone by moving the arms horizontally against the body, or by placing them in any other position this secrecy doesn't amount to much, considering that the Britishers, like other nations, use the Morse alphabet. The Russians have adopted the French lantern system for distances from one to two miles. These lanterns are constructed on the lines of bicycle

agreed upon. At night lantern slides of various colors are placed in the ends of the cones.

Personally the Kaiser has more faith in the captive balloon than any other optical means for telegraphany other optical means for telegraph-ing. The German captive balloon is furnished with means for photograph-ing, and the parties in the car com-municate with those on the ground by municate with those on the ground in means of the telegraph or tele-phone. For telegraphing an instru-ment similar to the Morse apparatus, arranged in compact form, is used. 'So phone. arranged in compact form, is used. The system is practically that used in

this country. For the signal corps of the German army the brightest men of each talion and regiment are selected. They are thoroughly drilled in all the man-œuvres connected with the transportation, the erection and operating of the apparatuses. Each German signal station is manned by five privates, a non-commissioned officer and a lieutenant

In the English army a similar num ber of signal men are employed with each company, squadron of cavalry and battery. The French employ eight instead of five men; the Russians think four men of each company sufficient for the service.

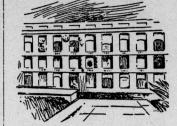
The French army employs as optiout of their own territory, but who are behind Germany in the rapidity of mobilization." The French army employs as opti-cal telegraph flags and lanterns. The flags are worked according to the naval code and Morse alphabet. French signalers are said to be able to execute is all for various reasons, the principal one being that the ordinary com-mercial lines, as well as the field lines established in their stead or for the

the flag being held over the head of the signal man. If the telegram is finished the signal man repeats the last word three times. If the receiven doesn't understand the operator he raises a flag with his right hand to his head. Of course, flag signals can only be used in daytime. be used in daytime.

head. Of course, has signals can only be used in daytime. At night the lantern is employed when search and flash lights are not available. Signal lanterns are handled after the fashion of the flags, dots being marked by opening and shutting the slide respectively. A dash is marked by exposing the flame four times longer than in case of a dot. Thus dispatches of twenty words can be for-warded in a minute. The Austrians follow the French method of signaling in all but the size and form of flags. To the standard colors of black, white, red, blue and yellow they add green. Green plays also a part in the Italian flag signals. The English largely employ the

CEMETERIES IN CUBA. is a Question as to Who Now Con

most of the cities and towns of the control of the cemeteries. During the Spanish regime the burial places were managed and controlled by the The fees authorities of the church.



OVENS FOR CORPSES IN A CUBAN CEME-TERY.

from the cemeteries formed a considerable item in the revenues of each parish church. It cost all the way from seventy cents to \$70 to secure funeral services and a burial in these consecrated grounds. Plots of ground were assigned to such families as desired them on annual ground rent terms, or else "ovens" in the cemetery walls, capable of containing a corpse, were assigned upon an annual rental fee. If the rent was not paid within five days of the expiration of any year the corpse was dragged out and the remains, bones and ashes, thrown upon the "bone pile."

thrown upon the "bone pile." In the cemetery at Havana when the Americans took possession of the city the dump pile contained literally millions of bones, and thousands of whitened skulls. The American au-thorities have ordered these horrible stacks of bones buried and this narstacks of bones buried, and this particular "sight" can no longer be seen in the island. Paupers have been buried with the slightest of earth covering.

Some of the cemeteries are distinguished by beautiful tombs and pieces of memorial statuary, imported from abroad and erected by the richer families of the communities. Under the new order of affairs the

city governments are claiming the cemeteries as municipal property and the church authorities are tenaciously pressing their title to them as the property of the church. In Cienfue-cas the accommanding general has all gos the commanding general has al-lowed the city authorities to take charge of the cemetery and reform the past abuses. General Brooke, Governor of the island, has notified both parties to the controversy-the church on the one hand and the city governments on the other-to submit their claims and proof in each case, and the decision will then be finally rendered as to which is the owner of the cemeteries and entitled to control them.

#### Volapuk is Vanishing.

In the later part of the seventies a German linguist, Johann Schleyer, was at work on a world language -au artificial language made out of the principal languages of the earth. In 1879 he issued a grammar and vocab-ilary of the language to which he gave the name of Volapuk. Volapuk ccnsisted of 14,000 words, of which about 1300 are root words, a third being taken from the English, one-fourth from the Romance, a fifth from the German and the remainder from other languages. Its grammar was its chief advantage, being very simple and regular through-out, was designed to be a useful commercial language. Its introduction marked the beginning of a craze. Ten years after the language was presented to the public there were no less than twenty-three publications appearing in In America a paper pub this tongue. lished exclusively in this new lingo was established and 5000 copies of "Handbook of Volapuk" were sold. But the



### HINTS FOR HOUSEWIVES. Excellent roor Coverings

Colonial rugs are an excellent floor covering. They are much more dur-able than the jute rugs of Japanese design and are less expensive than the Smyrna rug. They come in large car-pet sizes, in small mats, hall strips, and the usual variel dimensions. The colorings are good, chiefly in negative tones, and the designs unob-

#### Ironing Embroidery

Ironing Embroidery. The ironing process for all kinds of embroidery is much alike. The table should be covered with a thick, soft flannel and a very smooth sheet, to admit of the embroidery sinking in it, so as to preserve it from unsightly flat-tening. When there is much shrinking it is a good plan to begin by pinning the article by its edges to the ironing blanket wrong side up always. Cover all embroidered parts with a soft hand-kerchief and iron quickly from the kerchief and iron quickly from the centre outward, to press the wrinkles toward the edges, where they are most easily disposed of. When the article feels dry on the wrong side, if it is linen or cotton, turn it and iron the plain surface, taking care that the iron does not touch the embroinery to mark or spoil it or spoil it.

### The Value of Experience.

It is curious what discomforts house-holds endure through the want of a voing matron, who has been a house-keeper for three years, has had during keeper for three years, has had during that time but one cook. Lately, on getting a new one, she was surprised to find that broiling steak when prop-erly managed need not mean filling the house with the smell of burning fat. The new cook resorted to the simple and well-known expedient of opening the dampers of the range when she put the broiler on, sending, by this means, all the fumes up the by this means, all the fumes up the chimney. "Just fancy," commented chimney. "Just fancy," commen ed the astonished housekeeper, "that for three years, owing to my insperience and my cook's ignorance, we have been almost daily choked out and smoked ont!" It is happenings like this that make advocates of a course in domestic science at the women's collected New York Pact colleges.-New York Post.

### Care of the Refrigerator

The ice box should not be entrusted to the care of the cook, but should be looked after by the housewife herself. Cooks are not supposed to be suffi-ciently well informed to know, for in-stance, that a deadly poison is engen-dered by putrefied milk, and a small quantity spilled in the ice box and quantity spined in the ice box and merely wiped up may mean cholera morbus and perhaps death to some member of the family. Spoiled meats and vegetables breed the germs of typhoid and many other deadly dis-eases, and a careless or hurried ser-cent is light to everlook the timely vant is liable to overlook the timely removal of such offensive and danger ous agents. The flavor and health fulness of milk and butter are destroyed by any bad odor of the ice box, and become utterly unfit for use. To keep the ice box in a sanitary con-dition it should be entirely emptied of its contents every day in warm weather its contents every day in warm weather and thoroughly cleansed. To cleanse, wash every portion of it, top, bottom, sides and shelves—being careful of the crevices—with hot water and scap; then wipe over quickly with strong soda water boiling hot. Wipe care-fully, leave open to cool and air, re-place ice and close up to get cold be-fore rearranging contents. This should back for even and close up to get out of fore rearranging contents. This should be done with judgment, putting iv only such things as will not keep elsewhere, and reserving the lower shelf for milk and butter, the meats, further and adventee meetilles being fruits and odorless vegetables being put upon the upper shelf. The waste of ice from this method is small compared to the waste in health caused by the abuse of this household luxury.— New York Journal.

#### Recipes.

Cabbage Salad-Cut out the stalks and ribs from a tender, white cabbage and cut the thinnest leaves into nar-row strips. Pour a mayonnaise dress-ing over the cabbage and serve.

Cream Puffs-Melt a half-cupful of hot water, and while boiling, beat in one cupful of four, then remove from the fire and cool. When cold, stir in three unbeaten eggs, one at a time. Drop quickly on tins and bake twen-

### A TEMPERANCE COLUMN.

#### THE DRINK EVIL MADE MANIFEST IN MANY WAYS.

The Reasons Why in Spite of the Violent Opposition of the Hindoos, the Rum Traffic Goes on Increasing in India-Club Life Under Ideal Conditions.

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#### The Making of a Man.

I want to tell you a true story to-day about a young man who became famous. Like many another poor fellow, he was a slave of the fearful habit of drink. This is

It kee many another poor fellow, he was a slave of the fearful habit of drink. This is the story: One day when a rich and talented young lady of Richmond, Va., was out driving she came upon a young man who lay be-side the road, drunk. Moved by pity, she alighted from her carriage and placed her handkerchief over the young man's face, then continued her ride. Some days later the young man's face, then continued her ride. Some days later the young man's face, then continued her ride. Some days later the young man's face, then continued her ride. Some days later the young man's face, then continued her ride. Some days later the young man's face, then continued her ride. Some days later the young man's face, the says is the start of the other day. I found your name on the handkerchief, and have come to thank you for your kindness. I have signed the pledge. With my hand on my mother's Bible, I have sworn, God be-ing my helper, that I will never drink an-other drop of intoxicating liquor." The kept his pledge. His rescuer became fis wife. He was a young man of rare talents, and it was not long before he be-came widely known as a brilliant writter. His name was William Wirt. He became the Attorney-General of the United States, and was once nominated for the Presi-dency. This little act gave to America one of her

and was once nonintener in a dency. This little act gave to America one of her greatest lawyers.—Christian Inquirer.

### A Significant Fact.

A Significant Fact. What a measure of significant meaning lies in the fact that so often in times of mergeney and peril, as in the case of riots and other public disturbanets, one of the close repeatedly in the mining regions in where and ofted at various times by our military commanders in Cuban cities. But it the saloon fills such a necessary place in the bile ofthe world as some would have us believe, if it is, on the whole, an institution the saloon fills such a necessary place in the bile of the world as some would have us believe, if it is, on the whole, an institution the ought to be licensed and tolerated general and dreaded in times of public peril? If it has an inherent and legitimate phonel is operations be suspended at any sub of the saloon works any of the saloon so the saloon works any of the saloon so the saloon works any of the measure of the saloon works any of the saloon so the saloon works any of the measure of the saloon works any of the times of peace, why not in the secret Drinker.

#### The Secret Drinker.

The secret drinker is no doubt injured in the same way as others, and his foolish ef-forts to conceal this act intensifies the in-jury, which after a time breaks out in some unexpected form, ending fatally. The sudden, unexpected death of persons pre-viously supposed to be well, has in many cases revealed the fact of secret spirit drinking of many vast' duration, with decases revealed the fact of secret spirit drinking of many years' duration, with de-struction of vitality and general decadence. Life insurance companies are often aware of this fact, and appeal for help, but it is exceedingly difficult to convict or prove secret drinking in a man with a large in-surance, and more difficult after death to bring out this fact. The law in these cases will seldom allow presumptive evidence; it must be direct and positive of the use of spirits. Unmistakable insanity is present in some cases, seen in the usual cunning and wise calculation to procure spirits and conceal its effects.—Christian Work.

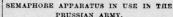
## PRUSSIAN ARMY. are two tanks filled with oxygen and are two tanks filed with oxygen and hydrogen respectively. The hydrogen is lit and, the oxygen gas mingling with it, produces a colorless flame. A lime block placed in the flame is ren-dered incandescent and its light, reflected from a mirror, is sent forward. The mirror is a vowerful parabolic, resembling in shape the end of an

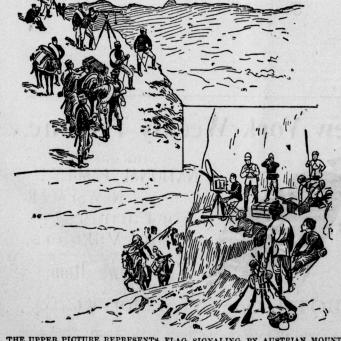
egg. The concave portion is the re-flector. This apparatus is so con-trived that the beam light can be sent trived that the beam light can be sent in all directions. The telegraphing is effected in the same way as the tele-graphing with lanterns by the French. All the apparatuses described are, if possible, set up on natural or arti-ficial elevations. The signal officers must also be careful to find a suitable head removed for their constraints background for their operations. so that the signals from the other side the can be readily interpreted. There is, however, one great drawback to all these systems. As all armies use as a



lamps, having a bulls eye lens, and being fed by oil. On long distances the Russians use lime light appara-tuses constructed as follows: There

But





THE UPPER PICTURE REPRESENTS FLAG SIGNALING BY AUSTRIAN MOUNT-AIN ARTILLERY. THE LOWER PICTURE REPRESENTS THE BRITISH ARMY IN INDIA USING THE HELIOGRAPH.

purpose of supplementing them, may short pause, after each word a longer plenty of them. He did so be destroyed by the enemy or the ele- pause, the latter being accentuated by cured five ercellent specimens.

these systems. As all armies use as a basis for their systems the Morse alphabet, friend and enemy alike are capable of reading the messages sent

Moose and Caribou Cemeteries.

The Forest and Stream contains the following contribution from a Quebec correspondent concerning the habit moose and caribou have of going to the same place, season after season, to shed their antlers:

'The idea of the animals seeking a definite place for this purpose was quite new to me, but lately the effiient Surerintendent of Game and Fisheries at Quebec, L. Z. Joncas, Esq., has told me that they do fre-queut such places, and that this habit was quite well known to him. He knew of many and mentioned several knew of many and mentioned several places where horns could almost cer-tainly be found at any time. And not only do they go to shed their horns, but they go there to die. These places are known as cemeteries, and whole skeletons are occasionally found. This, however, would be rare, as the bones would usually be torn spart and scattered by bears and other carnivorse. carnivoræ. "Mr. Joncas instanced the case of a

g sulleman going to a certain region for geological exploration, who asked for a permit to shoot a moose out of season in order to get a good pair of antlers. He was told that by diverg-ing a little from his route he might reach a place where he would find plenty of them. He did so and seFATHER JOHANN SCHLEYER. (The inventor of Volapuk.)

fad is dying out rather rapidly, though the activity of some of its friends, es-pecially in the Volapuk academy in Russia, show no signs of decreasing. The obstacles in the way of its becom ing a world language are numerous It is not at all adapted to those who speak the Polish and Hungarian lan guages for instance; its great defi-ciency was its inability to render the idiomatic expressions of the various living languages; while the idea of in ducing a billion and a half of human beings to give up their mother tongue for an artificial language is hardly con-cairable at this day eivable at this day.

The English Language in Cuba Here is an advertisement that ap-peared the other day in a Havana paper: "This is without doubt one of paper: "This is without doubt one of the factories of first class and of the most universal credit, and we affirm that no other has this credit with more merits, by the goodnes intelli-gency and care employed in the preparetion and perfectionment of his productions."--New York Tribune.

ty-five minutes in a moderate oven.

Lemon Syrup-Put two cupfuls of sugar, one-half cupital of water and a few thin parings of the outside of lemon peel into a saucepan on the fre; stir until the sugar is all dissolved, and then let it boil, without again touching it, for twelve minutes; add the juice of half a lemon.

Cucumber Sandwiches-Select a cu-cumber that is small and thin, that there may be no large seeds. Peel and slice as thinly as possible into ice water and let stand ten minutes. Drain very dry and place between thin slices of bread which have been spread with mayonnaise dressing.

Rice Slices -The day previous cook tender three-quarters of a teacupful of rice, in ha'f milk and water (in all one pint), to which a half-teaspoonful of salt has been added. Put to cool in deep dish. In the morning slice in deep dish. In the morning slice and dip in egg and brown on the grid-This makes a very nice breakdle. fast dish in the spring.

Congealed Pudding-Half box of gelatine soaked in half cupful of wa-ter. Scald quart of milk; in this put three-fourths of a cupful of sugar, one-third cake of chocolate broken up. one-third cake of chocolate broken up. Stir in gelatine. When chocolate and gelatine have dissolved set aside to cool. When slightly hard stir in a handful of raisins. Many gelatines will harden in warm weather without the use of ice. Place the bowl in 'a deep one of cold water. All these recipes have been trad and found de-licious.

### Notes of the Crusade.

The saloon bird may be known by its set and nestlings.

It is reported that more than 2000 sa-loons have been established in Cuba since the close of the war.

the close of the war. Tolstol, we are told, is a tectotlar and a wegeterian. He never takes tea, coffee, butter, eggs, milk, cheese or sugar.

There were 79,955 convictions of men and 30,784 convictions of women for drunkenness in England and Wales last year.

year. The German Association Against the Misuse of Spirituous Drinks has issued a circular to the students of Germany ask-ing that the compulsion in the corps and vereins to drink beer be done away with.

The principles of testotalism appear to be making way steadily in Scotland, not-withstanding the enormous waste of ex-penditure which still goes on in intoxicat-ing drinks among the working classes.

The woman who does not understand the art of making over her last year's bon-net should never marry a drunkard to re-form him.

Frances E. Willard made herself popular by doing unpopular things, and she made unpopular things popular because she did them.

It has been judicially decided in Geor-gia that saloons may not legally open their doors after the polls tre closed on election day.