HAD DEVICE TO WARN OF SHELLS "When the fighting stopped our mil-itary scientists and others co-operat-ing with them were working on the de-

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With Uncanny Accuracy,

War Department Relates Astounding Achievements of Corps at Home and Abroad-One Device Spotted

117 German Gun Positions in Single Day-Corps Also Produced Most Powerful Searchlight in Use.

The war story of the engineer corps at home and in France is told officially for the first time in chapters of the war department's brief history of of searchlight more powerful than any American war efforts, made public in that had preceded it in any army, and advance sheets. Many of the record- with which the Second Field army had the action of their boys, and they been partially equipped. "It weighed," the report says, "oneed accomplishments of the engineers have been published before as isolated incidents, but this is the first com-leighth as much as lights of former plete and connected story which gives designs, cost only one-third as much, any idea of the extraordinary scope was about one-fourth as large in bulk. of the duties modern warfare laid and threw a light ten per cent strong-

upon engineering troops. er than any other portable projector Probably the best illustration of this in existence." so far as the troops in France are con-

one

the units of the engineers which which would enable them to control had hung it on the wall. Those boys reached the other side. There were searchlights from a distance. seven regiments and two battalions of The chapter devoted to the work of them, and it had decided their life. railway construction engineers, five the engineer corps in France draws a it was stronger than the influence of battallons for maintenance of way; vivid picture of the duties of the com- father and mother-they could not two battalions for maintenance of rail- bat engineers who played their full overcome it. way equipment: four regiments and part in the fighting from the begin-

regiments to operate light railways cutting down of French forests to con- youth will prove stronger influences and their repair shaps; two regiments vert them into barracks for American than any of the science, or the wisto operate the regular railway repair troops; of the miles of highways built dom, or the fine example you may shops; two regiments and six separate and constantly rebuilt as shellfire tore put before your little ones.-Exchange. batfalions on general construction them to pieces; of cement mills taken

work; two regiments for storing and over in France by American troops to NATION'S FIRST LIBERTY LOAN transporting engineer supplies; a for-provide trench materials; of the great estry regiment; a light railway con-map-printing plant, where the enstruction -regiment; a road building gineers finally were able to produce Was Floated by Alexander Hamilton regiment; a water supply regiment; not only all maps needed for the

a mining regiment; a quarrying regi- American army but even supplied the ment; a technical regiment for sur-French Seventh and Eighth army with veying and sound ranging; three sur base maps for their fronts. In this

vey and printing battalions; two railhuge plant at Langres in November way transportation battalions; an electrical and mechanical regiment; several separate companies to operate work done. There is told also the fight in congress. cranes; a camouflage service; five in- story of a camouflage factory at pongress had incurred debts aggregatland waterway companies to operate Dijon where material to blind enemy ng \$54,000,000 during the Revolutioncanal boats and the like; five pontoon airplanes' eyes and to confuse the en- bry war, while the various states of trains and a pontoon park; a railway emy's pickets was turned out in vast the new republic had obligations transportation and stores battalion quantities.

and a searchlight regiment. And Then There Were the Sappers. knowledge and scientific achievements ing abroad, and all the members were These special units, all composed of of recent years," the report says, in of one mind in paying that, but opinmen trained in civil life in the United concluding that portion devoted to the ion- was divided about paying notes States for the work they did in France, engineers, "drawing upon the fund of held at home. The South had practiwere in addition to the fighting en-experience acquired by the regular cally paid its own way through the gineers with each division, the sappers, army in its theoretical studies and past war and it objected to being saddled who formed about eight per cent of wars, making available the vast with debts contracted by the northall of the combatant troops in France. amount of technical skill which has ern states.

One section of the report is devoted assisted this nation to its present com-to the development of American rail-mercial and industrial status, the enways in-France and to the production gineers of the United States army zovernment's bonds, and paying less of railway equipment in the United worked and fought, planned and ac than they were worth. People were States to meet the call from the front, complished in France a work which in told that the country was too poor There were shipped to France 1,303 magnitude exceeds any similar un- and too sparsely settled (there being locomotives before the armistice was dertaking recorded in American his-less than 4,000,000 people in the counsigned, of which 908 were in service tory. From base ports to first waves try) to pay the huge indebtedness. at that time. In addition, 18,313 of an assault upon the energy's post-freight cars were shipped abroad, both lions, engineer troops have been con-ed Hamilton in his fight and after two

velopment of a sound-ranging appara- /ISIONS OF YOUTH STRONG tus intended to give troops warning Listening Instrument Operated of shell fired by the enemy in their di- incident Proves How Firmly First im-

were in sight in connection with these

sound-ranging devices is contained in

"When the fighting stopped our mil-

The Most Powerful Searchlight.

the following paragraph:

the air.

rection. The preliminary experiments pressions Are implanted in found that at 4.1 miles these mechan-Child's Mind. ams could detect the firing of the gun as long as 19 seconds before the shell What won't impressions, received in

GREAT WORK OF ENGINEERS arrived, thus giving troops ample time shildhood, do for a man? Take those to get under cover. Such a develop- two youths from the Tennessee mounment was possible because of the far sains who desired, when they were greater speed with which earth vibra- irafted, to go into the navy. Their

tions travel than those of sound in mountain home was as far removed from the ocean as it well could be. "Except for lack of time in the They had never seen even a large brief seconds between the firing of the pond. For three generations not one

gun and the arrival of the shell it of their ancestors had seen the salt would be quite possible with this pro-water. Yet these boys would not listen posed apparatus to calculate almost to any call for the army, but they

~ The

exactly where the shell would land. demanded a place in the navy. The story came to an officer in a The corps produced also a new form nearby camp, and he became interested and visited that home. Both ather and mother were puzzled over

could not understand why Henry and William had demanded the ocean. As the officer turned away he poticed hanging on the wall in the livng room of that house thes crude picture of a ship under full sail onan impossible blue ocean. It had come The engineers were at work when into that family years before, wrapped cerned is the technical organization of the fighting ended upon a mechanism around a package of goods, and mother had grown up with that picture before

Men' and women with children of battalion to operate the main ning to the end. It also tells in de-their own ought to understand how

American railways in France; three tail of the building of the railways, the the dreams, the poetry, the visions of

Immediately Following the War of the Revolution.

America's first Liberty loan was aunched 129 years ago, in March, by over 1,900.000 lithographic prints were Alexander Hamilton, the first secremade and over a million sheets of type ary of the treasury, after a bitter The continental amounting to \$25,000,000 more. Of

"Utilizing and applying the new the national debt \$12,000,000 was ow-

Have you any unkind thoughts? Scrap Book Do not write them down, Trite no word that given pain; Tritten words may long remain, lave you heard some idle tale? Do not write it down.

THE CATHOLIC JOURNAL.

Do not write it down. Bossips may repeat it o'er, Adding to its bitter store. Have you any careless jest? Bury it, and let it rest; It may wound some loving breast. Words of love and tenderness, Words of fulk and kindliness, Words of gladness for the glad, Words of gladness for the glad. Words of gladness for the glad. Words of gladness for the glad. Words of worsel for the bad-----Wisely write them down. Wisely write them down. Jords: though small, are mighty things. Pause before you write them

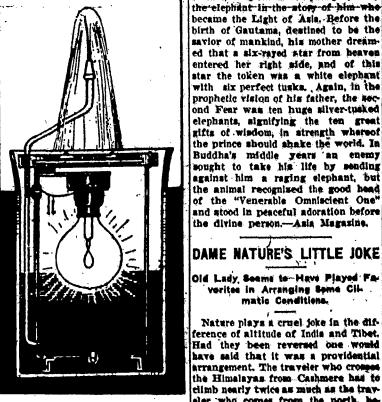
attle words may grow and blogm Vith bitter breath or sweet perfume Pray before you write them.

ELECTRIC LIGHT IS PUMP iome-Made Fountain, Recently Pat

ented, the Novel Idea of a -Cleveland Man.

A home-made fountain that makes use of an electric light for the nump is novelty recently patented by Mr. latt Luckiesh of Cleveland. As shown in the accompanying il-

lustration this simple fountain makes use of a 150-watt high efficiency electric lamp, placed in the upper part of an airtight vessel partly filled with wa-



A 150-Watt Tungeton Lamp Does the Pumping.

ter, and having an outlet tube connecting its lower portion with a nozzle of capillary dimensions.

The expansion of the air shove the water, due to the heat given out by the lamp, forces the latter out through this nozzle and the spray is caught and overflows into an outer vessel, explains Scientific American, When the current is turned off, the air pressure falls and the water returns to the inner vessel through a check valve at the bottom.

habitable countries in the world. The British Army.

AULES FOR LETTER WRITING LEGENDS OF THE ELEPHANT GALEN'S FAITH IN NOSTRE Many and Wonderful Are the Tales Early Father of Told Concerning Its Virtues Wonderful Virtues for Can and its Wisdom

the animal recognized the good head

vorites in Arranging Some Cil-

matic Conditions.

Known as Mithradati Naturally we talked first about ele- Mithradatium was the name of the phants, of which he was almost as great antidote of Roman pharmacr. It

bledieine Cial

childishly fond as L. But in contrast had from 40 to 50 vegetable ingredito my poor knowledge, he possessed ents, few of which had any real medicthe rich lore of a man who had not inal value except onlum, and there only observed hathi for many years drugs were blended with honey.

with loving interest, but had also lim it remained for Nero's physician, An-tened to the tales of mahout and shi-dromachus, to put the fulshing touches. kari from Slam to Ceylon. He poured to this wonderful compound, Androout a hundred gifts from an apparent- machus added viper's fiesh to the forly inexhaustible store. He told of mula and called his new compound "round-ups" in Burma, when the wild therlaca. He wrote some verses dedherds are driven into gigantic corrais leated to Nero, describing this medito be tamed for the service of puny cine and claiming virtues for it which man. Then, turning to the names be in our day would subject him to prosstowed by doting mahouts on these ecution under the anti-trust act. Evicolossal darlings, he pointed out that deutly he believed he bad created in in this nomenclature of affection Lo- this one compound a verifable pharmatus, or Lily or Pearl was only a com- centical monopoly.

monplace, while even Silver Star and Galen, one of the fathers of medi Golden Joy seemed inadequate, Folk cine, went even further. He reco tales, too, he repeated, among them mended it as a cure for all polsons, the narrative of the wise elephant bites, headaches, vertigo, deafness, ep that used to be sent out from a cer llepsy, apoplexy, dimness of sight, tone tain city the morning after the king's of voice, asthma, coughs, splitling, of blood, tightness of breath, colic, death to bring back in its beleweled howdah the man it had chosen as suc lilac passion (appendicitis), jaundica, cessor to the throne. Finally, just hardening of the spleen, stone, fevera as we were leaving the bank of the dropay, leprosy, melancholy, all per stream, he spoke of the part played by tilences, etc. Nowadays be would the elephant in the story of him who probably have included coupon that became the Light of Asis, Before the golf shoulder and movie eye;

As Galen's writing dominated medbirth of Gautama, destined to be the savior of mankind, his mother dream- Ical thought for ever 1,500 years, it is ed that a six-rayed star from heaven not surprising that this advertise entered her right side, and of this ment made Mithradatium, or Ther-Ics, a valued remedy. Rivery physistar the token was a white elephant with six perfect tusks. Again, in the clan of note for conturies afterward prophetic vision of his father, the secinal formula. ond Fear was ten huge silver-tusked

gifts of wisdom, in strength whereof MAKE YOUR OWN DECISIONS the prince should shake the world. In Buddha's middle years an enemy

Faallah Habit of Lashing on O One That Should Be St

Most people who have suco any direction of activity can trace the measure of their specess to the his of deciding things for themselves. On of the grantast temptations we have is to coulde in others. By yielding M it we not only become a nulaunce the our friends but keep en lowering with own powers of resistance. It is we than uselow to ask the advice of oth Nature plays a cruel joke in the dif. ers, because they are rarely so a ference of altitude of India and Tibet, interested in our troubles as we think Had they been reversed one would they are, or would like them to be, have said that it was a providential they were, they would have to know - **6' - 1** arrangement. The traveler who crosses much about our troubles as we do the Himalayas from Cashmere has to pass judgment, and this we can

climb nearly twice as much as the tray- tell them even if we would eler who comes from the north, bees indeed we may is cause while India averages only permuch about our own troub haps 100 feet above we level, Tibet such a way that the averages 12,000 feet, and for this reathought of the na puts them in this son is called the Roof of the World. wrong perspective; but this at Now, had India had this elevation, is only made worse by a south of the mighty range of the Himcontusion of another's mind to a alayas, and thus shielded from the By deciding everything for y north, as well as nearer to the equayou make mistakes; but uvery tor, her climate would probably have is a valuable future asset. It is been as temperate an Britain, and one only way you can tears how. Long of the healthlest in the world. While how is very necessary. Unless you are had Tibet lain as low as India, in- willing to do this and stand upon the stand of being the dreatlest, most in- lown ground, your permanent include own ground, your permanent hospitable of lands, it would, by rea-will be doubly difficult.--Pictorial Me-son of its latitude, be one of the most view.

The Vedda of Ceylor

Students have long been interested

in the Australian aboriging, the Afri-

can bushman, and the Ovylopoor Vedda. The Veddas are recorded as

far back as 541 B. C., and their cut-

changed but little since the stone and. But the Veddas, on report of a travela

s Vedda faithful to the traditions we

lost art. In this Caylon jungle E ing

stances it has, been held that the

Veddas are incapable of civilisation

But then that depends, of course, o

isolated specimens. In any

"herdy

peculiar interest. For now

engines and cars having been pro-stantly in action, first to last, and months' argument the federal governduced specially for service in France, have 'carried on' always with the high ment assumed the whole nation's in-These were employed upon the 937 ideals of the professional and with debtedness and the first Liberty loan was floated. miles of standard guage track laid in the motto of the corps of engineers:

France by the engineers with equip-'Essayons' (Let us try), before them.' ment shipped from this country, and

DRIVING THEM OUT

Returned Soldiers Have Constituted Themselves into Courts.

England, 19 of them with a total of Returned soldiers in the Lemmon, S 304 cars having been completed by D., territory have constituted them-December, 1918, with 20 additional selves judges, jurops and executioners, er's shop, threw down a plece of metal trains under construction. They cost in all cases in which the United States more than \$18,000 per car, but it is es- army or the United States is slandered. timated that to have produced them in and will drive from the community all the United States and shipped them men guilty of such slanders. As a

would have cost \$40,000 per car. starter in their campaign to rid the The report lays stress on the fact country of these men they already that great progress was made during have driven one undesirable from Lemthe war in the development of road mon. The soldiers waited on the indibuilding, railway, and other engineer- vidual, who is a Russian, and gave him ing equipment which will be of value 30 minutes to leave town, threatening commercially in peace time. The mo- that if he was found in town at the

torized machine shops alone, it is expiration of the half hour period he stated, are practically certain to would be treated to the roughest han-and do you know where I got it? Why, bring about in this country the use of dling he ever received. bring about in this country the use of dling he ever received. moving shops of this character in agri-cultural communities as farming ma-chinery increases. "The but he soldlers are about to take action in another case, his double chin, and said he thought it being infimated that this is a much "The but he could explain it. "The solution of the soldlers are be could explain it. "The solution of the soldlers are the big infimated that this is a much "The solution of the solutio

"The day has come," the report more flagrant case and that accord- "Yes, and explain it you will be ore says, "when the traveling machine ingly the treatment will be much more fileave this shop." continued the exshop will be a familiar sight upon severe.

ar rural highways." Others are expected to be given the "Well," drawled the butcher, as he smarked his lips, "I must have forour rural highways.' were the photolithographic press ing to purge the community and vicini-gotten to take the collar off !" trucks, which were able to produce ty of all persons of known pro-German maps from original sketches within 12 and anti-American sentiments. Cool hours, as compared with four days heads among the soldiers are cautionrequired by similar French and Brit-ing them to be careful and not do an friend's house for dinner, and hefore injustice to any person.

ish units. A special chapter is devoted to lis

the folling stock was in addition to

great quantities of light railway equip-

ment for front line work that was also

Hospital trains were obtained in

sent abroad.

tening instruments developed during NO PRIDE IN DEATH the war to locate hidden guns. Im proving upon allied designs, the en Cemetery Directors Insist That Graves zineer corps produced machines for of Rich and Poor Be Alike. this purpose which operated with "uncanny accuracy," one of them having

spotted 117 German gun positions in death? The thought alone is a Chrisa single day. Subsequently these were than sacrilege, much less the dead it-didn't pass anything I didn't want." followed by instruments of even self. war there were 12 complete outfits, Lakewood Park Cemetery association

each covering a five-mile"stretch of of Lakewood, O.; who demand that front, at work on the American lines. the resting place of the rich man and Similar development of instruments the poor man hereafter must be uni-

for locating hostile airplanes were form-a modest headstone, rising not carried out until it was possible to more than a foot above the cemetery determine the location of a raider at lawn.

night within an angle of three de- "It does away with the attempt of rees. The American types produced well-meaning people to outdo each "Well, the fact is," made him a second doss vere easily portable and quickly set other in the size of their monuments," handsome wedding present of a book, was whisky? up to aid the searchlights. A hint said George Thorne, president of the at the scientific developments which association.

ornment.

SIMPLE MATTER TO EXPLAIN Butcher's Ready Explanation of Cir-

cumstance Which Aroused Considerable ire in Gustomer.

An irate customer entered the butch-

on the counter, and indignantly exclaimed: "What do you call that. sir?" The man of pork examined it, and replied: "It looks like a bit o' brass."

"Bit of brassconsist of 15,000 officers and 225,000 not fit for house pets. of course it is: men. At present 1,150,000 men of the

British army are being demobilized and also 73,000 men of the Indian army fand 325,000 men from the dominions.

> Pertinent Question. Amos W. Butler, secretary of the board of state charitles, fells a good

one. It runs like this: Early in the days of the legislature Mr. Butler sat placidly at his desk in he board of charities office opening his mail.

"Dear Amos:" read one letter, " -1... 11 ! ---?" Mr. Builer read

on, but it became cleaver that the letter was intended for another Amos who was spending some time about the legislative halls, that is, in connection with the third house. The London Express.

its mark grew plainer and plainer. Finally the letter closed with the

"I'm coming down to the legislature in a few days. Do you think I'd

Indianapolis News.

The British army at home and 2wsliew rt Chamei abroad, exclusive of the force in In-Four years are I purchased a chame dia, now numbers 2,500,000 men, and leon at the Wakefield fair, F. H. Sidis being reduced to 052,000, according ney writes in Boston Evening Tranto a White Paper issued by the gov- script. The little fellow made himself at home among our house plants and toms and beliefs are thought to have

The Army of the Rhine, including kept them clean of bugs; he became troops in France and Belgium, will tame and answered to the name of But the Veddas, on report of a travel consist. after demobilization, of 23,000 Mickey. The tiny lixard would come lately returned from the wilds of Ope officers and 380,000 men. The armies when we called him; and he kept the lon, are reaching the end of this of the middle east will be as follows: plants free from bugs and the house Italy, 600 officers and 10,000 men; Bul- clear of files. On warm days Mickey

garia, Turkey and the Caucasus, 4,850 would crawl out onto the plazza and his ancestry survives: not one, play and 1,150 officers and 10,500 men flock of guines hens wandered around and depends for subsistence minter and of the Indian army; Egypt and Pales my house, and although Mickey had and depends for subsistence selars at the state of the jungle." The best the British army and 2,750 officers and boards, the sharp-eyed gaineas spied him and made a rush, and before my but have been fargely supplantant. ficers and 28,950 men from the British army and 4,600 officers and 50,000 men of the Indian army.

Agincourt.

fashionable.

The home and colonial establish. Invade any one's premises; and that typical Vedday are left, but the ment, including troops in Russia, will furthermore, lizarda were reptiles and

Origin of Neck Shaving.

Where Wives Are Cheep,

What is the market in wives? It is

what is meant by civilization. A study of the many necks to be seen on the walls of the National Por-Trait gallery enables me to state that

Dream Reveals Crime. A dream once played its part in al the custom of neck shaving, although celebrated English criminal casesaid to have been recently imported from America, was undoubtedly known "Red Barn Murder"-the met and most likely popular in the days of which is kept allve by the melod

still played in country towns. Mrs. Marten, the mother of Mari The portrait of Henry V. shows quite clearly that his neck was shaved, and Marton, the wittim, drasmod thro if the king did it it must have been successive hights that her deman had been murdered and burled

Red Barn, She-insisted that the Most Americans have their necks should be taken up. shaved, and in one of Jack London's

This was done and the body stath novels, the hero, a teamster, on strike, missing girl was found, and co points out to his wife that he must ed a link in the chain of circum patronize the barber because he canevidence on which the murde not possibly shave his own neck liam Corder, was convicted and cuted in August, 1828.

Tricks of Watches Watches are tricky things in pust

said that among the Alnus the price of one is a bear ham. The Kaffir figtime, writes a correspondent, and war ure varies from four to eight oxen time seems to have made them trickles according to the competition for the than ever.

The universality of the wrist watch A score of cartridges buys a wife has led to some queer, discoveries. I First Gossip—Don't tell a soul, but in Uganda, and the Australian black know an officer, for instance, on was saw a whole barrel of whisky de gives the weight of his better half in wrist no watch will work properly; gives the weight of his better half in wrist no watch will work properly the livered to the Topeleys this afternoon butter, while the Tartars in Turk- same watches, transferred to another estan get as many wives as they want soldier's wrist, regain their col

In another instance the

Second Gossip-How'd you know it at the rate of a box of matches each, and keep time.

Th

selped the delivery man handle it with in weekly installments. Oardig Week orn Mall. are .--- Buffalo Express





you.'

"Well," drawled the butcher, as he

Didn't Say That. A little girl was invited to a

leaving her mother warned her to say "please," "thank you," and "no thank

When the little girl returned she was asked if she had been good.

"Did you say 'no, thank you,'?" askfact that the letter had gone wide of ed her mother, "when they passed Pride, haughtiness, distinction-in something you didn't want?

"No, mother, I didn't, because they query:

"Nuff Sed."

"Brown, why goes Charlie refuse to

friends.'

he's married now."

make?'

"Well, the fact is,"I made him a and he bain't spoken to me since,"

"What was the book?"

" Paradise Lost.""

speak to you? You used to be great "Yes, when we were bachelors, but "And what difference does

in broad daylight.

better bring a quart or a gallon?"-

The Goods, All Right.

particular bride.

Wales wives are given away-

First Gossip - Why, Topeley himself they are paid for afterward, mostly will persistently min on