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to the Tribuns Printing Company, Johnted. Germany paid last year more than \$4,000,000 in pensions to the aged poor. It was a much-needed and graceful charity. But far better would be a social and industrial system un-der which such alms would not be becoment.

necessary. Yale mathematical professors have been discussing a popular way of writ-ing the year 1899 in Roman numerals. According to the meant system it ording to the present system it Id have to be written MDCCCLX-XXXIX. This is a bewildering array of figures, and many of the Yale professors favor writing it MCIM, says the New Haven Evening Register. It is thought that this method will be sight that this method will be stally adopted by those who have sion to write the Roman numerals,

The London Telegraph has produ x! Sunday edition. It is the first of a bunday edition. It is the first of the large London papers to do so, and has been followed by the Mail. Can this be the result of the recent closer communion between England and America. We have been told that savages when bronght into contact with civilization rapidly acquire its vites; but testimony to the reverse tendency is imperfect. Certainly the rule is that the older civilization cor-rupts the younger. It is a puzzling thing to make facts fit scientific theo-ries.

The status of woman in Japan has shanged to a remarkable extent in the last few years. It is an invariable cube that with the advance of civiliza-tion in any country we find enlarging liberty for women and the concession of a granter rights to them. It appears of greater rights to them. It appears The proton lights of them. It appears that is spint of the unfavorable condi-tions under which Japanese women of the generations preceiling the present one have lived they stil have asserted themselves to a marked degree in the literature of their country. One writer tells us that a large and important part of the best literature that Japan has produced was written by women. A good share of the ancient heroic poetry of Japan is the work of women. The two greatest Japanese books which have come down from past cen-turies are by women. It would seem that with her larger liberty and her immensely improved opportunities for education the Japanese woman would become a much larger contributor to art than she has ever been before. that in spite of the unfavorable c ondiart than she has ever been before.

No other country has shown such a rapid increase in the production of coal during recent years as the United States, according to statistics just made public by the Treasury Bureau Statistics. The quality of coal oduced increasel from 32,863,600 as in 1870 to 147,860,380 tons in <text><text><text><text><text> lons in 1870 to 147,860,080 tons in 1307, while the total quantity export-ed increased from 227,918 tons in 1870 to 4,008,996 tons in 1897. In the first mentioned year the United States sup-plied but 17 per cent, of the world's total output; at present it furnishes about 25 per cent, thereof. It is when comparison is made with the increases in the production of other countries that the magnithed of the strides made by the United States can be best ap-prociated. The average annual out-put of Great Britain showed an in-crease of 45 per cent, in the period



Revolution in Industrial Methods During the Twentieth Century.

SOME NOVEL AND AMAZING EXPERIMENTS. 0 0000000000000000000

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bight, hid the law of super-sede steam, if it can be made cheaply enough. For that Mr. Tripler provides by his application of liquid it to the mann-facture of larger quantities of liquid air. He asserts that he has accom-plished such a result; that he first need steam as the power requisite in the process of making liquid air; that the an engine as a substitute for steam, operated the engine thereby, and used the spon-power. "If find in this watter," he said, "that I hav- been generally misun-dersteed. I don't claim to create en-ergy, to make something out of noth-ing, to upset any of the laws of nature. I do say, though, that the scientists have been wrong in some of their notions, and that they will have to change them. I assert that by the use of a given quantity of liquid air, substituted for steam power, I can make, and have made, larger quanti-ties of liquid air. Tuse over and over again the liquid air employed in the making. It seems simple enough to me, and the principle is so simple that it onght to have been grasped by any scientific mind at once, but, to my surprise, it has not; what my critics ray appears plausible, but in fact their contentions are all aside from the mark, for they have got hold of the wrong end of the proposition, and do not comprehend at all what I an about."

mastered the secret of its production, he now proposes to apply it to prac-tical use. Mr. Tripler brought six gallons of liquid air with lim from New York, i and in the presence of four or five hundred persons performed the ex-iperiments that are described in Mc-Clure's Magazine. He dipped the stuff out of his can with an ordinary in dipper, just as a milkman would dip milk. He dropped a potato in it, lifted it out in two or three minutes and threw it on the floor, where it broke into a thousand liftle crystals. He took a rubber ball, immersed it in the liquid and then broke it as if it was glass. He dropped in a piece of beefsteak and in a moment it was broken into little fragments that looked like petriled wood. He im-mersed a tumbler of alcohol, and in a few minutes it was frozen into ablock of ice. He filled a pasteboard box with merury, which when immersed in the liquid air became as hard as steel, and he used it as a hammer to drive nails in the table. He immersed a steel, and he sed it as a hammer so drive nails in the table. He immersed copper, tin, iron and strips of steel in the liquid air, and they crumbled like piecrust. He demonstrated the ex-pansive power of the liquid in a similar manner, and altogether performed ex-periments that were not only novel but amazing. The liquefaction of air is one of the about." "Then, whatever the modus oper-andi may be, you do distinctly claim that by the use of any given quantity of liquid air you can make a larger quantity?" 'I positively and absolutely make that claim."

that claim." "You claim also that by the use of three galons of liquid air you have produced ten?" "Thave done that very thing," re-plied Mr. Tripler with emphasis.

plied Mr. Tripler with emphasis. "Does its success as a great revo-lationizing agency in modera indus-try and life depend upon the produc-tion of larger quantities from given quantities?" the reporter asked. "If I had not achieved the abolition of steau in the manufacture of liquid air I should have accomplished noth-ing. That is, although liquid air might still be of use in some special application—as, for instance, in sur-gery and medicine—it could not be-come the supreme and universal pow-er-producer which I expect it to be." "Yon believe that it will supresed steam?"

"You believe that it with supersede steam?"
"I do-for the traction of railway trains, for the propulsion of ships and for the operation of machinery in general. As a motive-power its advantages over steam are great. It will east far less, it will save bulk and weight of plant and apparatus, it will be vastly more efficient."
"Do you expect that its use will enable railway trains and steamships to attain greater speed?"
"I do look tor such a result. There its every reason to believe that, given this greater power than steam, higher speed can be produced."
"How would it be used—stored or make it in transit not only on steamers and trains, but also in flyingmentines."

steamers and trains, but also in Hying-machines." "You believe that it brings nearer the day of aerial navigation?" "Certainly. There is no other agency which, with such small weight and bulk, can produce such motive power as liquid air."

"To what extent has it been used in surgery and medicine?" "Thus far cancer has been treated with it, and the most gratifying re-sults have been obtained. It is too early to say just what its value is. I do know that its application to cancer has stopped the spread of the disease, and ip one case the wound has con-

tracted to a very small one. In an other case, after a number of applica-tions to a cancer on the breast of a woman, it fell out into the operator's hand. A number of cases of cancer have been under treatment, and in all which were in incipiency or had not been rendered incurable by the free but vain application of the surgeon's knife, it has arrested the cancerous growth. It has, besides, a marked effect in removing the pain accom-panying the disease. A patient suf-fering from cancer of the nose said that the shooting pains which had pre-viously adlicted him disappeared en-tirely after the first application of the ain. It is quite possible that it may have some special value as a local anagenee can be arrested long enough for amputations to be made that will save a life. Bat, of course, I am not a physician or a surgeon, and it is not the curative properties of liquid ai which have chieffy interested me. Its use in medicine and surgery is now under careful study by physicians. I appears to be an irresistible germi-cide, and that I think I have inci-dentally discovered means by which it can be so applied as safely to reach the lungs and destroy the badill of tuberenlosis. Indeed, the physicians of the body where I thought it could not be applying it to parts of the body where I thought it could not be applied, and, therefore it seems a distinct probability that means while devices by which dis-case germs, wherever they may be in taken.

Maxim had invented. Professor W. C. Peckham, of Adelphi Institute, Brooklyn, from whose pen an article on liquid air ap-pears in the Century, has also written on the subject in the Scientific Ameri-can. In the latter journal he has given this description of the plant and pro-cess of Mr. Tripler: "If (the plant) consists of a triple-air "Orm, having three pumps upon one piston shaft working in a line. The first gives sixty pounds pressure; the second resizes this to 750 pounds, will the third brings the air under a compression of 2000 pounds per square inch.

second raises this to 750 pounds, while the third brings the air under a compression of 2000 pounds per square inch. "After each compression the air flows through jacketed pipes, where it is cooled by eity water. For this work about forty horse power is employed. After the third compression the air flows through an apparatus which dis-poses of some of its impurities, and it passes on to the liquefier. It is this part of the apparatus which usuaries and the strength of the compression the air flows through an apparatus which usuaries to the liquefier. It is this part of the apparatus which usuaries are of the apparatus which usuaries and the probability construct-ed valve, whose details are not made public, a portion of the compressed air is allowed to expand into a tube surrounding the tube through which the remaining air is flowing. This expanded air absorbs a large amount of heat from the air still under com-pression in the inner tube. The con-tents of the apparatus, a stream of hud, upon opening the valve at the bottom of the apparatus, a stream of hudid air is received, flowing out with scarcely more force than the water from our ordinary city service pipes. Thus the liquefaction of the appar-tion of a portion of the compressed at cooled air, without employing any other substance to bring about this science Crows Out Palhearers.

## Science Crowds Out Pallhearers

Science Crowds Out Pallbearers. The latest novelty in the line of funeral equipments has just been in-troduced into Porland. It is in the nature of a casket-lowering device which does away with the pallbearers lowering the body into the grave. By this new invention the casket is brought from the hearse and placed on the device, which is automatic in its operation, and at the proper time the underlaker touches a spring and the casket is, by invisible means, lowered quietly into the grave. Thus does science smooth our passage to the cold and silent tomb. — Portland Oregonian.

the mountain, each weining a indecessible. Major-General Redgers Buller had charge of the operations at one end, and before daylight his troops began the arduous ascent. All went well for a time, when suddenly they en-countered a large force of Zults ap-proaching at an almost incredible speed. It was necessary to retreat, and Buller attempted to accomplish this though the other troops were un-able to cover him in the perilons under-taking. The Zulus thronged around the pre-cipitous path, pouring volley after vol-ley at close range upon the deserted band. But for Buller's heroic exer-tions the whole force would have been exterminated. He rallied them again and again, cheering and encouraging them by voice and action. Many troops were dismounted, and to these he proved an angel of salvation. He to being out off, on his own horse, to a comparatively safe place. He person-ally saved six lives, besides all that were saved by his orders and his ex-ample. Although he had been forty-eight hours in the addle, and was suf-foring from a painful contusion, he him-self covered the retreat, charging again and again at the Zulus, thus gaining time for his men to extricate them-solves from the terrible volley of rocks. 'Miss Hanna Shot a Wild Cat. Miss Ruth Hanna, daughter of Sena-

selves from the terrible volley of rocks. 'Miss Hanna, daughter of Sena-tor Hanna, is the heroine of a wild cat hunt which occurred on her father's game preserve near Thomssville, Ga, recently. For some time a large wild cat has been annoying the other oc-cupants of the preserve, and finally Miss Hanna determined to get its scalp.

HORTICULTURES R Weak-Growing Apple Tr

Weak-Growing Apple Trees. There is a great difference in varies for apple trees as to their habit of forwith, and judgment is needed in on each. The strong-growing varies ties like Northern Spy will need very to fall from old age. But there are there kinds of slow and feeble growth that even while young can beer some specially if it is composted, and its de licencies of potash and phosphate are to be applied. Conse manure ought never to be applied to apple trees at any age. It is the formentation of manure in the soil that is the prolific cause of the fungas growths that higher foilage and the tree. The only fertilizers that can be appled by for the source as help the tree. The only fertilizers that can be any so to show a hosphate.

be always used with satety are the minerals potash and phosphate. Seciless Fruits. We have not taken much interest in talk about seedless fruits, for the rea-son that the trees or plants on which they grow must be propagated by lay-ers or cuttings, both of which involve much skilled labor. But one advan-tage may make these fruits yrofitable. They would be exempt from attacks by insects which place their eggs at the blossom end of fruits, that being the place where the egg may be most safely and securely deposited, and from which there is an open way to way through, and with no blossom end. But if all orchards were seedless would not the always enterprising in-sect contrive some way to meet this emergency, and perhaps become more destructive than ever.

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emergency, and perhaps become more destructive than ever. Saving Breach For Kindling. The praning orolaride the branches fout out are often piled in heaps and the trees in their vicinity. There is a more better way than this. Apple, pear or peach wood makes when dried a very hot fire, and snould be saved for the stove when the branches are too large to cut readily. Even the the very best of kindlings, when dried, and if they somewhat crocked they are all the better, because they will not pack closely together as the straight sticks are pretty sure to do. An old often suggested that the next time he drew up wood for the house, he sticks are ougle that the next time he drew up the load of the crockedes that "Mary, how do you like this load of way, how do you like this load of the are sompanions. Stood by expect my was the inquiry, while the farmer's companions. Stood by expect my was the inquiry, while the farmer's companions stood by expect my was the inquiry, while the farmer's companions. Stood by expect my was given in the sweetest thens. "Mary how do you like this load of the asset the inquiry, while the farmer's companions tood by expect my was given in the sweetest then. "Mary how do you like this load of the asset the inquiry, while the farmer's companions tood by expect my was given in the sweetest then. "Mary how do you like this load of the asset the inquiry, while the farmer's companions tood by expect my was given in the sweetest thens. "Mary need it at home when I was a sin, and mother used to say that the peake they fitted so nicely around the kettles."

# The Care of Roses.

# The politice he got basswood." What Pluck Did. It is the bulldog fearlessness and tenacity of an Englishman that makes im a conqueror even when he faces a mob of barbarians. After the bom-berdment of Alexandria by the Eng-lish fleet had driven the Egyptian troops ont, the city was looted by thieves and cutthroats. Three or four hundred bluejackets were landed, who stopped the outrages by arresting every person found with plundler in his possessior. On arrest a person was tried by every person found with punder in his possession. On arrest a person was tried by dramhead courtmartial, and the sen-tence, shooting or flogging, was ex-ecuted without delay. An English-man, Mr. Hulme Beaman, who as-sisted in punishing the robbers, de-seribes in his book, "Twenty Years in the Near East," a dangerous ex-perience from which he was enabled to emerge by cool, fearloss, bulldog pluck.

in the Near Last, " a dangerous ex-perience from which he was enabled to emerge by cool, fariless, buildog pluck. He had been detailed to superintend the flogging of two prisoners and the sinooting of a third, the sentence to be carried out at their native village, a nest of thieves. There were ten thousand of the riffraff looking on. Five policemen (Egyptians) and three Englishmen represented law and order. The prisoner, sentenced to be shot for a murder, was fitted into a shallow grave, and the policemen fired a volley, which the excerations of the mob. Only Mr. Beaman and the Egyptian officer commanding the police under-stood what the mob were saying, and the Egyptian begged the three Eng-lishmen to get away while yet there was time. They, however, insisted on seeing the flogging carried out, and remarked that the slightest symp-tom of fear would excite the mob to murder them. The flogging exaperated the crowd, already excited by the excention, and they pressed close round the Eng-lishmen. "It is time to put an end to infidels forturing believers!" said a portly old Arab sheikh, close to Beaman's elbow.

The Englishman seized the Arab, and told the mob they should be ashamed of themselves to sympathize with a murderer and thieves. A sul-lef silence followed. The prisoner, placed in a carriage, in which a police-man and two Englishmen also rode— the third riding horsehack alongside —was driven at a walk through the dense throng to Alexandria, where a construminal ordered them to be flogged.

donse throng to Alexandra, where a constructual ordered them to be forgod. The next year that sheikh called on Mr. Beaman at Cairo, brought with him little presents, admitted the jus-tice of his punishment, and he and Mr. Beaman remained the best of friends. The faintest sign of weak-ness would have turned that mob into furious wolves. A Peritous Swim. While our soldiers and sailors were advancing the flag, last summer, a deed as brave as any of theirs was

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Miss Hanna determined to get its scalp. Accompanied by Howard Hanna, her consin, both being mounted on deet horses, she started on the chase before sunrise. The scent was taken up by hounds, and for nearly two hours the two cousins rode over rough coun-try. Miss Hanna shot the cat when it took refuge in a tree. She rescued the carcass from the dogs and hore it home as a trophy. Sportsmen said it was one of the biggest animals of the kind ever seen in that part of the State.

ever seen in that part of the State. Too Restlistic a Drama. Too Restlistic a Drama. The Cardiff, Wales, recently, at a tea-the event teatimment given to the parishion-ers by the National School, the play "Bed on Wolf-skin was not seen by some of inter the wolf's appearance at the bedside of the wolf's appearance at the bedside of the grandmother, the child who weak-seen a playing the part of grandmother gave a realistic yell of dismay and scrambled out of bed head forsmost; the sight of her fat littleform in a tight nightleress caused much laughter mer a nealistic yell of dismay and scrambled out of bed head forsmost; the sight of her fat littleform in a tight nightleress caused much laughter mer a nealistic yell of dismay and scrambled out of bed head forsmost; the sight of her fat littleform in a tight nightleress caused much laughter mer a nealistic yell of dismay and scrambled out of bed head forsmost; the sight of her fat littleress caused much laughter mer anong the audience as she disap-peared behind the curtains.—Weekly