### THE ST. LOUIS.

## IN AMERICA.

#### Details of Her Dimensions and Appoin ments -- Splendid Interior Arrangements of the Great Ship.

The new American liner St. Louis is a beautiful craft, alike in regard to her lines, her sumptuous internal arrangements, and above all, her speed. It has not been claimed that the vessel has been built for speed, but when she returned from her sixty hour trial trip it was known that she had developed the remarkable speed of 211 knots an hour without being pushed, and that when she was asked if she couldn't do any better the crack liner had plowed her way through the Atlantic at the rate of 22 knots and some odd fractions. This signifies that the St. Louis, to put it in plain English, can travel at the rate of about 24 miles an hour, and if she can do that in her trips across the Atlantic there isn't another ship afloat that will be able te keep pace with her.

She is the first Atlantic greyhound and the biggest steamship that has ever been built in America. The St. Louis is altogether American-built in an American shipyard, manned by an American crew of 400 men and commanded by an American captain.

The St. Louis has been built in less than two years. The first frames were erected on July 23, 1893, and she was launched fifteen months later. Her dimensions are: Length, 554 feet; length between perpendicular, 535 feet; extreme breadth, 63 feet; molded depth, 42 feet; number of decks, 5; number of watertight compartments formed by transverse bulkheads and flats, 17; distance of collision bulkhead abaft of stem, 33 feet; displacement at 26 feet draft, 16,000 tons.

The machinery of the St. Louis consists of two separate engines. each driving a separate screw. There are ten enormous boilers, six of which have double ends and four single ends. In addition to the main engines there are no less than fortynine auxiliary engines used in the working of the ship and twelve additional ones for lighting and ventilating the vessel, independent of the propelling machinery. Her gross tonnage, 11 629.

The ventilating system of the ship, it is believed, will be the source of the greatest comfort to the passengers. There are four large ventilating plants, each operated by electricity. By this system it is possible to change the air completely in every room in the vessel in ten minutes. Each of the plants has two fans, one for exhaust and one for supply. As They keep alive 100 public smoking fast as one fan draws the vitiated air places. air in. In cold weather this fresh air is heated by means of ventilators waif is taken to the receiving house. near the top and the bottom of every | where it is kept until a country home | apartment: the passenger may regulate the temperature and the ventil-

ation as he chooses. The lightning system is elaborate. All told there are more than thirteen hundred electric lights in the ship and four large dynamos are required eight miles away. in operating the extensive plant. That would be enough to supply a capacity of the ship is: First cabin, 350; second cabin, 200; steerage, 800. The crew will number about of juniper berries. 400 .

Among the interesting facts about the ship are that there are fully one thousand tons of piping of the various kinds in the ship. The circulat- as is the Quaker custom-by all the ing pumps will pump up at least fifty guests at the ceremony. million gallons of cooling water a day, probably double the amount of water required for the use of New York City in a single day. The furnaces will consume no less than the strument, if a new tune is required, enormous amount of 7,500,000 cubic an entire fresh set must be put in. feet of air an hour. The amount of coal used a day will be little more than three hundred tons. The length of the boiler tubes if placed in a

The people of St. Louis are naturally proud of the ship that has been called after their town. As a sense of their appreciation they have presented the St. Louis with 1,622 stand. ard volumes for the saloon library and 639 volumes for the second saloon. Some folks in St. Louis also presented the ship with 200 copies of hymnals and prayer books. Other gifts from the town included ten ornamental glass windows. portraying prominent features of St. Louis, and a beautiful set of flags.

The vessel is so divided that in case of collision two and even three water tight compartments could be flooded and not enlanger the safety of the ship. The fastening edges of the bulkheads have been made unusually secure, so that if the ship sustained a shock in that place in collision the chances are that only one compartment would be flooded. This same arrangement has been place with the fresh simplicity of made in the engine and boiler spaces. her youth. She has just been over The boilers are in two groups, one to England with her mother, to visit for each funnel. They are entirely her aunt, the Duchess of Albany, separated from each other, and if and in the grounds at Clarmont, one set of boilers became incapaci- where her aunt's fine palace stands. tated the other set could do the work with her cousins, a boy and a girl of supplying steam to the engines at near her own age, she has had as a moderate rate of speed. The engines | merry a romp as if she were not burlikowise are cut off from each other dened with the coming cares of a by water tight compartments, and kingdom. Everybody will wish this it would be possible to run the ship pleasant-faced child, who is both with either engine if the other should amiable and intelligent, a happy life break down. In addition to these and a long and prosperous reign.

precautions for safety, there are in the life saving equipment fourteen life boats, fourteen collapsible boats, BIGGEST VESSEL EVER BUILT one cutter, one gig and four metal life boats, and they all have the advantage of being operated from the shade deck above any possible rush of frightened persons to secure places in them.

#### Keep the Water Pure.

If a pitcher of ice water is set in a room inhabited, in a few hours it will have absorbed the perspiration gases of the room, the air of which will have become purer but the water unfit for use. This depends on the fact that water has the faculty of condensing and thereby absorbing nearly all the gases. Hence water kept uncovered in a room a while is always unfit for use, and should be often removed, whether it has become warm or not. Impure wateris as injurious to health as impure air, and every person should provide the means of obtaining fresh pure water for all domestic uses. An hour's intelligent examination of the water supply at a proposed country home would in a large majority of cases prevent the risk of fevers and diphtheria. Take in your dressing case an ounce phial of saturated solution of permanganate of potash. Mix six or eight drops into a tumbler of the drinking water that is supplied. If it turns brown in an hour, the water is broadly speaking, unfit to drink; if not, it is not especially harmful. If a country hotel sewage system is confined to cesspools, within a hundred feet of the house, and near the water supply, take the next train. These matters should force themselves on one's personal attention.

#### Odds and Ends.

Only thirty per cent. of the robberies committed in London lead

to a conviction. Experiments prove that snakes will

not cross hair ropes. The horned toad of California is almost as invisible as the sand in which it exists.

the world, and was used as an article of food by the ancients. In several European countries, in-

The strawberry is known all over

cluding France and Belgium, elections are always held on Sunday. There are forty-eight different materials used in the construction of a

piano, from no fewer than sixteen countries. At the depth of three thousand feet the temperature of the oceans is said to be the same both at the Arctic

Circle and on the equator. The Chicago Civic Confederation declares that there are 60,000 victims of the opium habit in that city.

from the rooms another pumps fresh Australia is a country without orphans or an orphanage. Every

is found for it. To the Pyramids by trolley may soon be a possible trip. The Egyptian government has just granted a concession for an electric railroad in

Cairo, and the Pyramids are only There is a loaf of bread in the Agricultural Department at Washtown of large size. The passenger ington made from the ronsted leaves of a plant allied to the century plant, Another kind of bread is from dough

> Scores of Quaker families in southern Pennsylvania have preserved the marriage certificates of their ancestors for many generations, signed-

> When the tunes of a piano-organ are changed, the cost of a new set. consisting of ten tunes, is about \$15. Owing to the intricacies of the in-

### Wilhelmina, Queen of Holland.

The sweet girlish face which acstraight line would be nearly ten companies this paragraph might bemiles and the length of the condenser long to almost any little American tubes would be more than twenty- schoolgirl, but it is the latest picfive miles if put in a line. The total ture of Holland's young queen, Wilnumber of separate pieces of steel helmina. She is a most winsome in the main structure of the ship is and lovable girl, just past her fourno less than 40,000, and the total teenth birthday, and is adored by her number of square feet of timber used loyal subjects. With all her childishin the construction is more than ness she is conscious of her coming 1,200,000. The total number of responsibilities, and that gives her rivets used in building the vessel is manners a little touch of reserve and not far from a million and a quarter. dignity that seem almost out of



THE QUEEN OF HOLLAND.

#### BYRNES' METHODS.

#### Icnidents in the Career of the Detestive

tired from the head of the New York each of the occasions of great gatherpolice force, was born in that city ings in New York since the funeral June 15, 1842. He learned the trade day of General Grant. Upon each of gasfitting and worked at it until occasion he issued a proclamation he went to the war in 1861 with Elis- warning criminals that if they worth's Zouaves. He joined the po- were seen upon the streets on any of lice force on December 10, 1865, and these days they would be summarily was advanced by successive stages to arrested and locked up until the show the superintendency in 1892.

was one prohibiting any man in his the time allowed by law before ardepartment from opening his mouth raignment, which is anything less about police business. Every story than twenty-four hours, he threatof crime and crime detected which ened to rearrest the men at once came from the Detective Bureau was on the sidewalk outside the court told by Byrnes himself. He made it houses. his business to teach criminals that certain kinds of crime must not be committed. Highway robbery, bank burglaries, or important burglaries of any kind, systematic forgeries, counterfeiting and a lot of other crimes were prohibited, and, to the credit of the system which Mr. Byrnes created to suppress them, hage never been allowed to gain a foothold in New

Byrnes was a man of force and not finesse. His business was to check the actions of certain thieves and other criminals. To do this he made it his business to know criminals. He did not go out in the streets to talk to thieves, nor did he have them calling upon him as honored guests, he has explained, but when they were brought in to him as suspects each day he made them tell what



EX-CHIEF OF POLICE THOMAS BYRNES.

hours, not even admitting their pres- to suffer the death penalty ence there, or permitting a relative or friend to approach them, he was able to get almost any information out of a criminal caught in his net that he wanted against an associate or against themselves.

Byrnes himself is authority for the manner in which he forced a confession from the man Unger, who murdered his friend and afterward cut and sawed up the body.

"I was criticised for what I did in this case," he has said, "but I was prepared to defend my actions. Unger was a big, stolid, heavy jawed fellow-as stubborn and reticent as any man I ever saw. I could get nothing out of him, and I did not seem to be able to make any impression upon him. So I got the blood stained lounge upon which he had cut up his friend, the knife, the saw and the hammer with which he killed him, and put all of these things in the little, narrow cell with him. Well, in thirty minutes he was trying to break out of his cell to get away from these things. He was well ready to confess.'

Byrnes treated the thieves brought before him with the utmost contempt. He spoke to them as if they were the dirt of the streets, and of them as 'contagious diseases on the highways." "I never let them feel as if they were as big as a double ace," he has said. "When they come to me whining about their intention to lead honorable lives, I say: "None know it. Staal all you can and get try it in New York I'll land you they have humored it ever since. where you belong.'

If it happened that a thief of any note came to town and did not report to him he would send for him, ask him how he dared to come, and what he meant to do, and confront him with his record.

"I'd make him feel that he did not amount to as much as a fly buzzing iron plate is then boited on each side at the window," the late chief has said.

He kept a corps of stool pigeons constantly in the employment of his ter wheel department to make the acquaintance of and to betray thieves.

It was to keep track of all the different kinds of professional criminals that Byrnes organized his force. One lot of men looked after one class center, and then the wheel is as good of criminals and other lots of the as new. other sorts, each lot of detectives having its specialty in crime and criminals. Between Byrnes and his men and the thieves there grew up a find satisfaction in any of the usual feeling not unlike friendship.

is," said Byrnes. "They speak of and incandescent lamps, all of which me with a term of endearment which failed to satisfy him because they would not look well in print, but they either did not give light enough, or usually add that I am 'square with too much light or cast shadows. He body to jail,' they say, 'but as long as we don't steal in New York he don't bother us, and he don't take This threw the light up to the white what we've got, except by process of ceiling, from which it was reflected law.' I don't molest them unless I to the room below, and this method want them, or somebody else wants of lighting is reported to have been a me to get them. Otherwise, if they success.

#### keep out of the way I've no cause to trouble them beyond keeping an eye

# on them from day to day

A professional thief had few rights left in Mr. Byrnes' eye. It was upon Thomas Byrnes, who recently re- this principle that he acted upon was over. If magistrates discharged One of the first orders he put forth the prisoners after he had kept them

#### The Trotting Queen.

Alix stands fifteen hands high and weighs 950 pounds. She has an exceedingly bloodlike look, and her head, neck and shoulders are perfect. She is wide across the forehead, with a beautiful, beaming, intelligent eye. Her great peculiarity is that she is not fond of the opposite sex. She is exceedingly fond of the ladies, and a bonnet, with a good looking face underneath it, has only got to appear at her stall, when she will immediately go to meet the visitor. She will put her head down apparently to kiss the hand of the stranger, but in reality it is only her fondness for bonbons and sugar, which her lady visitors, who know her weakness, are always ready to give her. In this respect she is much like her own sex, whether equire or human; she is fond of the sweetness and luxuries of life. She is a model traveler, and as soon as she gets into her car lays fact is that the grip of an ant's jaw shirt for the regular danger signal, down and has no fear. As a campaigner she is fearless, resolute and game, and is in every respect the beau ideal, the dream and the realization of the perfect American trot-

#### Death for Train Robbers.

A bill has passed the National Congress of Mexico regulating the manner in which train robbers will hereafter be dealt with in that country. The new law provides that if during the assault on any train there should result a case of robbery or the death of one or more passengers, the criminals, if apprehended, will then and there be condemned to suffer the death penalty without any other formality than the drafting of the minutes regarding the execution by the officers in charge of the forces effecting their capture.

Those whose capture shall not be Armed with power under the law made at the moment of the commisto make arbitrary arrests, to lock sion of the crime will be tried by the have died. men, or women either, in the cells authorities adjacent to the spot of

### The Lively Turtle.

Philadelphia has swiftly caught on to another turtle. It is said a land turtle that without fail for twentysix years has regularly appeared at the home of Michael Mackey at Parker Ford, Chester County, came to time a few days ago, and is being proudly exhibited around Pottsdown by Mr. Mackey. That centleman asserts that there can be no mistaking his turtle, as the initials of his name are emblazoned on its shell. He says that its training has been so well developed at his home that at the sound of the dinner bell it comes into the dining goom to receive its allotment of food. It stays around the Mackey premises until September, and then goes off to its winter quarters.

### To Please the Eye.

Here are some of the paradoxes of architecture. If a column which supports an entablature is perfectly straight, it appears to lean outward, therefore the architect makes it lean inward. The perfectly level edge of a roof appears to drop about the middle, therefore it must be raised slightly at that point. A tapering monument with straight sides appears to be concave, therefore the sides are swelled a little. Corners of that here. You are a thief and you truth a little broader angled. Arare made to look square by being in chitects discovered ages ago that the away with it if you can, but if you hnman eye was prone to deceive and

### Centers of Paper Wheels.

The centers of paper wheels are made of successive layers of paper and glue firmly pressed together by hydraulic machinery, and a steel or of this paper center, and a steel tire is secured to the plates and center in the same manner as in a spoke-cen-

The centers of wheels of these descriptions are practically indestructible. The steel tire, of course, will wear out in time, but all that is necessary is to put a new tire on the

### Light by Reflection.

A manufacturer in Europe did not methods for the lighting of his cloth "They know what their business mills. He tried gas jets, are lights Byrnes wants to send every- finally painted the walls of his room

### FOR THE YOUNG FOLKS.

"FORWARD, MARCH!"

"Halt!" cries Captain Lazy Bones, 'Halt! halt! and stand at ease; This dusty street will tire our feet. And make us cough and sneeze." Then furl your colors, Lazy Bones, And make your meaning clear; You're not the man to lead the van, Your place is in the rear.

"Right about!" cries Captain Doubt; 'A mountain lies ahead; The road is rough, we've done enough, Fall out! and go to bed." Please, doff your feathers, Captain Doubt,

Our cause you do not aid. Such chiefs as you are only true At mess and dress parade.

'Forward! March!" cries Captain Pluck. "Heed not how winds may blow.

Sound no retreat until defeat. Or we defeat the foe." Three cheers! Lead on, we'll follow you: For glorious cause we fight,

And we will go and meet the foe, To buttle for the right. -Edward Carswell.

### ANTS AS BITERS.

have very powerful jaws, considering left of the red shirt, carried him out the size of their bodies, and there- and placed him on the railroad, fore, their method is by biting. hurrying out of sight to watch an They will bite one another and hold approaching freight train relieve the on with a wonderful grip of the jaws, neighborhood of the offensive goat. even after all their legs have been The animal, in the meantime, kept

bitten off by other ants. clinging with a death hold to one move rapidly to and fro, and with so another, making a peculiar spectacle, much success that the engineer of some with a leg gone and some with the on coming freight train mistook half the body gone. One singular the fluttering remnants of the red is retained even after the body has and stopped his engine in time to been bitten off and nothing but the save the goat's life. head remains.

### PRESENCE OF MIND. Here is an account of two boys,

went out to the woods with their bearing footprints in the solid rock. father to see him cut down trees. The slabs were taken from the quarry Through a mistake in calculating over Lake Managua, in the territory how a tree he was cutting would fall, of Nicaragua. These footprints had

body. not loose their presence of mind, ing all conjectures hitherto hazarded. but set to work with energy to save They are about three-quarters of a their father. Some boys would have meter square and are sunk into the exhausted their strength in vain stone to a depth of from eight to ten efforts to remove the tree; others centimeters. The footprints are said would have run and screamed for to be very conspicuous and seem to help, and meantime the father would be those of three distinct persons,

under the headquarters building, and their apprehension in the peremptory things. They commenced digging one yet has ventured to guess. to keep them there for twenty-four period of fifteen days, and be made a hole immediately under their father, and in a very short time released him from his awful situation. Their coolness and wisdom were the means of saving his life.

LION AND MOUSE. lion to test whether, as the old fables face at the time of the great fire in asserted, there was a natural affect- 1892. It has now been surpassed, ion between them. The experiment says the Engineering and Mining demonstrates that each was so afraid Journal, by the No. 3 shaft of the of the other that no affection could Tamarack Copper Mining Company, exist between them. The lion saw in Michigan, which on December 1 the mouse before he was fairly was 3,640 feet deep, and is now more through the bars, and was after him | than 3,700, the average rate of sink-

ing across the floor and squeaking in tion the deepest metal mine in exfright. When he had gone about istence, and only one other shaft has ten feet the lion sprang, lighting a reached a greater depth, that of a little in front of him. The mouse coal mine in Belgium, for which 8,turned, and the lion sprang again. 900 feet are claimed. The Adalbert This was repeated several limes, the shaft in Germany reached a depth of mouse traversing a shorter distance 3,281 feet. after each spring of the lion.

Finally the mouse stood still, squealing and trembling. The lion stood over him, studying him with interest. Presently he shot out his big paw and brought it down directly on the mouse, but so gently that the mouse was not injured in the least, though held fast between the claws.

Then the lion played with him, now lifting his paw and letting the mouse run a few inches, and then stopping him again as before. Suddenly the mouse changed his tactics, and instead of running when the lion lifted his paw, sprang into the air straight at the lion's head.

"he lion, terrified, gave a great leap back, striking the bars with all his weight. Then he opened his which he borrowed from the Faculty jaws and roared and roared again, of Medicine at Paris. while the little mouse, still squealing, made his escape. Of the two the lion was the more frightened.

#### THE CAT'S REVENCE. A cat story for a change.

has been in the family for seven tween the box and the cover, one years, and her mistress thinks she each side, so that their heads may be was fully 10 when she came unin- protruding a short distance from the vited and took possession, according box, and also pointing the same way. to the Boston Transcript. Her Fix a third match tightly in a horicharms made her welcome, and zontal direction between the two visitors, as a rule, pet her to her heads of these two matches, so that heart's satisfaction. Still she shows it is not touching anything else but her loyalty to her mistress by many the two matches. Then strike the feline qualities.

in spite of pleadings and protesta- air. tions. Her ears were greeted with the strange terms, "old rascal," "scapegrace," "tramp" and kindred names till the astonished cat did not know what had come to her. Her pretty ways disappeared, she fled from his approach and hid whenever tious, she could till he was out of the

house. One morning she was missing for some hours and was not to be found in any of her hiding places. A loud her whereabouts. Blossom had reshirt, which lay in tatters on the floor! Passy was scolded, and every one was cautioned to keep the door shut. In vain! The cat would find her way in and hide till the chambermaid was through for the day, and then the claws went to work, first on the visitor's own clothes, if any could be found, and then on the pillow cases. The young man tried to soothe her feelings, but she would have none of him, and he was glad to cut short his visit. Blossom quickly recovered her usual demeanor, and has never been known to destroy anything from that day to this.

#### A William Goat Flags a Train.

A track walker on the Pennsylvania Railroad, who lives in Philadelphia suburbs, is thoroughly convinced that an offensive William goat that infests his neighborhood was not born to die on the railroad. On returning from his work one afternoon he found the goat engaged making a meal of one of his best flannel shirts, which had been placed on the line to dry. The shirt was a wreck when he arrived on the scene. but he was not too mad to let the chance slip for punishing the goat. After a hot chase he caught William, Ants are terrible fighters. They and securing his legs with what was up a continual kicking, giving por-Sometimes six or eight ants will be tions of the red shirt a chance to

### Antiquity of Our Race.

An Austrian student, Herr Low, who by presence of mind and rare who has been traveling in Central good sense, saved the life of their America, has recently obtained and forwarded to the Imperial Museum In Maine, lately, these two boys in Vienna twelve large stone slabs the father was caught and pinned to been overlaid by eleven different laythe ground, the tree lying across his ers of stone, extending to a depth of four meters, and indicating an an-At the fearful sight the boys did tiquity for our race quite transcendone of whom was a child. To what The boys did neither of these race or to what age they belonged no

### The Deepest Mine.

It has been the undisputed claim of Austria that she possessed the deepest metal mine in the world, the Maria shaft at the mines of Przibram, A mouse was put in the cage of a which was 3,675 feet below the surstantly.

Away went the little fellow, scurrymonth. This makes it beyond ques-

### Worth More Than Gold.

A Countess of Anjou, in the fifteenth century, paid for one book 200 sheep, five quarts of wheat and the same quantity of rye and millet; and in early times the loan of a book was considered to be an affair of such importance that in 1209 the Bishop of Winchester, on borrowing a Bible from a convent in that city, was obliged to give a bond for its restoration, drawn up in the most solemn manner, and Louis XI, in 1471, was compelled to deposit a large quantity of plate, and to get some of his nobles to join him in a bond, under a heavy penalty, to restore it, before he could procure the loan of a book

### Eccentric Matches.

A curious experiment can be performed with an ordinary box of parlor matches. Take four matches Blossom is a big gray cat. She from the box and fix two of them befourth match and apply the light to One day a young man came for a the center of the third. Instead of short visit. He was an inveterate setting light to either of the two uptease. As there was no one else for right matches as might be expected, a victim, he took Blossom in hand, the match shoots right out into the

### Curiosities of Words.

It is said that there are only two words in the English language which contain all the vowels in their order. These are "abstemious" and "face-

The following each have them in irregular order: Authoritative, disadvantageous, encouraging, efficaclous, instantaneous, importunate, mendacious, nefarious, precarious, cry from the chambermald revealed pertinacious, sacrilegious, simultaneous, tenacious, unintentional, unvenged herself on the visitor's night- equivocal and vexatious.