THROUGH THE WHIRLPOOL RAPIDS OF NIAGARA

Niagara with human beings aboard his return home after his first exploit more who have emigrated from Pennwas the small steamer "Maid of the he conceived the idea of rebuilding his sylvania to the middle west, use it in Mist" on June 6, 1861. There were three boat in order that he might take a sedaily conversation. Even in cities men on board this boat, the principal ries of soundings close to the falls and like Allentown and Reading no merone being Joel Robinson, who won also in the whirlpool. On this new chant can be successful in business renown by the daring feat. From that time until 1883 no person braved the 1883, however, Capt. Matthew Webb, an English swimmer of note, crossed the ocean and journeyed to Niagara, bent on swimming through the rap-Ids. He attempted the feat on July 24, 1883, and lost his life.

The death of Webb had a stimulating effect on people who love notoriety, and at once a number of schemes for navigating the rapids presented themselves, or were presented by people who sought fame and dollars. One such was Carlisle D. Graham, a Philadelphia cooper, who announced that he would build a barrel in which he could navigate the rapids and whirlpool. There was some little laughter at the thought of a human being rushing through the turbulent waters of the Niagara gorge inclosed in a barrel, but all the jokes cracked did not deter Graham from carrying out his scheme, and on the afternoon of Sunday, July 11, 1886, Graham surprised everybody by not only going through the rapids and whiripool, but by going down to Lewiston, the full length of the gorge, Since that time he has made four other rapids trips in his barrel. One of these was made on July 13 last, when he landed at the whiripool.

One of the results of Graham's last barrel trip was to arouse the ambition of Miss Maud Willard to make a similar trip, the result being that Graham and Miss Willard agreed to navigate the gorge on Saturday, Sept. 7. The plan was to have Miss Willard make MISS WILLARD, WHO LOST HER the rapids voyage in Graham's barrel, while Graham, protected by a life preserver, was to swim from the whirlpool to Lewiston, a feat never successfully performed up to that time.

On the afternoon referred to Miss Willard and the barrel were cast adrift above the lower bridges at 3.58 o'clock. Two minutes later she passed under the bridges, and at 4.04 p. m. the barrel entered the whirlpool. It had been the experience that barrels and boats were captured and withdrawn from the barrel was not caught until after cans, an engine room, a coal room and

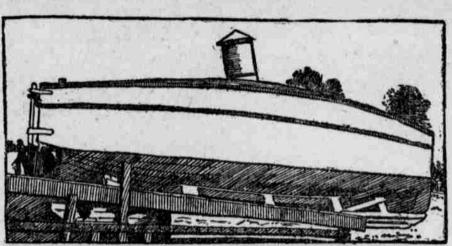
pass through the whirlpool rapids of in a boat of his own construction. On Pennsylvania, and probably a million ries of soundings close to the falls and like Allentown and Reading no mercraft he expended much time and labor and it was in it that he made his next its use. On the trolley lines and in billows of the wonderful gorge. In trip. The boat is 21 feet in length, has an outside beam of four feet and a height of six feet six inches, and cial conversation. These men speak draws nearly four feet of water. It is claimed to be the smallest full-decked steamer in the world. In shape it is governed by no rules of grammar. somewhat resembles a whaleback. The boat is oak, elm and pine. The deck is of cak and pine. The total weight of the boat is between four and five tons. The wooden keel has an iron weight or additional keel attached which weighs about 2,100 pounds. At the port of Chicago the boat is registered as the "Fool-Killer," a pleasure launch, and Nissen by the papers is al-



LIFE IN THE WHIRLPOOL RAP-IDS.

lowed to carry two people, which in-

cludes the crew Two deadlights, or windows, are set about eight feet back from the stem, one on each side of the engine room; The glasses are about four inches in diameter and of heavy plate, affording ample light to look about the engine room. The propeller is four-bladed, and 28 inches in diameter, quite large enough for a 40-foot boat. The interior of the boat is divided into five the pool within an hour after en-tering there, but in Miss Willard's case spaces, one at either end for corks and



THE "FOOL-KILLER." IN WHICH PETER NISSEN SUCCESSFULLY NAVIGATED THE WHIRLPOOL RAPIDS-THE SMALLEST FULL-DECKED STEAMER IN THE WORLD.

9 p. m., and she had been floating in | a boiler room. The corks and cans are the pool over five hours. When she for the purpose of keeping the boat entered the barrel she took her pet affoat in case of springing a leak and log for company's sake. When the that they serve their purpose is proven barrel was landed the dog was alive. by a recent test, when it was found but Miss Willard was dead. The day that the boat would not sink even before Miss Willard's trip, Martha Wa- though full of water.



C. D. GRAHAM, WHO MADE A NOT-ABLE SWIMMING RECORD DOWN THE NIAGARA RIVER.

genfluhrer made the trip and was taken from the pool alive. On Nov. 28, 1886, Sadie Allen made the trip in a barrel of different construction, with George Hazlett.

Later a Michigan woman went to her death in the attempt.

This was his second trip, the first hav- now spoken more widely than ever the wires.

Nissen's voyage through the rapids on Oct. 12 was witnessed by 15,000 people. He left the Canadian shore from a point near the falls at two o'clock, and after cruising about in the still water for two hours, he floated into the rapids. The Fool-Killer passed through the rapids in four minutes. Nissen attempted to take soundings in the rapids, but the force of the water broke his cable and he was compelled to desist.

PENNSYLVANIA DUTCH.

In Consequence of a Collision, Railroads Taboo It.

Pennsylvania Dutch is spoken to such an extent in various parts of the Keystone state as to have become an issue that has created some feeling. Th Lehigh Valley Railroad company has recently offended some of its patrons by ordering all crews on its lines to use only the English language while on duty. The order says that "under no circumstances shall Pennsylvania German be spoken," and it is said to have been issued for the reason that recently a serious collision nearly resulted because a conductor gave directions to his crew in this language, and a brakeman who did not understand it perfectly shifted the cars to the wrong track. As the rules are printed in English, the railroad officials are plainly in the right in insisting that this language shall be exclusively used by its employes while on duty. What kind of a language is this Pennsylvania German tongue, which requires such an unusual order to be issued to railroad crews? It is a strange combination of English and the German dialect spoken in The latest venture of this kind is northern Bavaria. A quarter of a centhat of Peter Nissen of Chicago, who tury ago it was said that this lanon Oct. 12 successfully navigated the guage was dying out and would soon whiripool rapids in a 21-foot cigar- be no more. Such prophecies, how-

So far as known, the first craft to | ing been made on July 9, 1900, when | before. Two millions of people in sylvania to the middle west, use it in unless his employes are proficient in the railroad yards employes may be heard employing it constantly in so-English well, but it is easier for them to chat in this strange dialect, which It seems that they are using it even wood used in the construction of the when on duty, but the safety of the public demands that this practice shall be stopped, and the employes themselves will doubtless all agree that the Lehigh Valley railroad has done a good thing in issuing the orders .-Pennsylvania Grit.

TRAVEL UNDERGROUND.

London's Roads a Travesty on Rapid Transportation.

city of London proper, the center of the financial activity of the world, is log to free it from obstructions. If suggested. Although only a square the log happens to be in the swamp or mile in area, with a day population of meadow it is dug out, but if in a pond about 300,000 and a night population or creek, as soon as it is freed from of only a tenth of this, in a single day the saw it immediately springs from over a million and a quarter of people the mud and floats on the surface of and 100,000 vehicles enter and leave its the water. No signs of these buried limits. The general street traffic is logs can be seen and they are found carried on by about 200 miles of tram- only by probing. In many swamps ways, nearly 150 lines of omnibuses there are three growths under the and 12,000 cabs. Internal communica- mud, with the present growth standtion is also provided by two lines of ing above them. An immense log has underground railways, with suburban been dug from under a large aged connections, and three deep-level roads stump that was also under ground. operated electrically. Two lines are Some logs gnawed down by beavers under construction, six more author- have been worked in what is known as ized and parliamentary rights are Robins' swamp. From 1860 to 1870 Elsought by existing or new companies mer Edwards is said to have secured for thirteen railways, or modifications 100,800,000 dug-up cedar shingles. or extensions thereof. Most important From one log \$75 worth of shingles of the existing roads for internal traffic were obtained. A large amount was and admitting of the greatest possibil- sent to Winchester, Mass., to be used ities are the existing Metropolitan and in the manufacture of violins,-Chithe District railways, with their exten- cago Record-Herald. sions. Unlike the roads of later construction they are of the "cut and cover" type, brick arched and with flat roadbeds. Both lines of way are in a single tunnel, close to the surface, and at times in the open, the extensions being almost entirely so. These roads may be described as composed of an ly has been tracing so-called slang inner circle (or ellipse) about thirteen phrases through the labyrinth of varimiles around, with outlying branches ous languages, and has found that radiating and looping in various direct many of them are of ancient and some tions. At present they are unfortun- of classical origin, like the famous ately under separate managements, as phrase, "He's a brick." As most evwell as subject to running rights which ery one knows, this originated from interfere with a reasonable schedule, the reply of the King of Sparta, who, The class system and compartment when asked where were the walls of cars characteristic of long-distance his city, replied that Sparta had 50,lines, are maintained, while fares vary 100 soldiers, "and every man is a materially and in many instances are brick." It was once the custom in almost prohibitive. The present oper- France to serve to a guest who had ation is a travesty on rapid transit, butstayed his welcome a cold shoulder says F. J. Sprague in Engineering. The of mutton instead of a hot roast, as a inner circle presents a ten-minute serv- rentle hint to terminate his visit. ice between the upper and lower Hence the expression, "To give the halves, while with stations half a mile apart, and with no grades or curves worth mentioning, a schedule of only named Hawkins committed suicide by 111/2 miles an hour is maintained. The atmosphere is foul from the use of gearer to the convenient rafter which steam and the walts are double what he had selected for his hanging place. are necessary and the delays are augmented by changing engines.

German Prince a Fiddler.

The German crown prince promises o exhibit the versatility for which his father is famous. During the recent the pantry with labels, appropriating visit to Lowther castle the Earl of one or more ples for certain days. The Lonsdale engaged a large band, which was under the direction of Mr. Hamliton, the senior conductor of the London county council park bands, and the Turks to wear a feather in their played long programmes of music each rap for each Turk they killed. Hence evening. The programme, it may be mentioned, did not include an undue is of extremely ancient origin. In proportion of German music. Perhaps pompell people who gained admission with the idea of remedying this omis- io the theater or the amphitheater sion the young prince on the last even- without paying their way were "deading of his visit borrowed a violin from one of the orchestra and played Handel's "Largo" in very creditable fashion.

Honors Easy. She: "You know, John, you promised

me a sealskin wrap, and--" He: 'And you promised to keep my stockings darned, and you havn't done it." She: "Well, you don't mean to say you'll break your promise on that account?" He: "Well, it's just this: You don't give a darn, and I don't give a wrap."-Philadelphia Press.

An Unreasonable Protest. "I feel hurt," the young lover remarked to the adored one. "Why?" Because all the time I have been courting you I find you have been making inquiries about me." "But courts of inquiry are all the style just now,"

What We Are Coming To. "Do you think you will marry that titled gentleman from abroad?"

Dealer.

the American heiress. "I am not sure I can support him in the style to which his ancestors were accustomed.'

Spiders Tap Wires.

obliged to put the telegraph line between Rosario and Buenos Ayres under ground, because on wet days the electric current was dissipated through de las' word dey heah 'im say conshaped boat called the "Fool-Killer." ever, have proved to be false, for it is the numerous spider webs attached to scious wuz, 'Dam de race problem!'

FISHING FOR CEDAR LOGS.

Sunken New Jersey Swamps That Furnish Priceless Shingles. The cedar shingle industry which

flourished at Dennisville, Cape May county, N. J., a few years ago is now almost extinct, and the export of the once-prized wood, some of which is said to be nearly 3,000 years old, has been reduced to a minimum. The sunken cedar swamp reaches from the mouth of Dennia creek to what is known as Cedar Swamp creek, and runs along Cedar Swamp creek to the village of Petersburg. The age of this swamp is not accurately known. Twenty years ago Prof. Cook, then state geologist, visited Dennisville and examined a tree dug up by Charles Robart of Cape May, which he then said was 3,000 years of age. The valuable cedar, which consists of fallen trees, lies buried underneath the swamps, creeks, meadows and ponds at a depth of four feet. Thousands of acres have been worked, as this wood is very valuable for shingles. A roof of dug up cedar shingles will last for fifty years. The wood is not so plentiful now, as the log men have worked the swamps for years, and the present growth of cedar does not fall and bury itself. The process by which the wood is obtained is very interesting. An iron probe about five feet long is thrust into the mud until it strikes a buried log, when the logmen keep on sounding until they discover the The movement of the traffic in the length of the log. They then thrust in a saw and cut all the way round the

TRACING SLANG PHRASES.

Them Go Back to Classical Greece and Rome.

A learned German philologist recentold shoulder." Back in the days of 'Good Queen Bess" a shoemaker standing on a bucket to bring him Having made fast the rope he kicked the bucket away and so accomplished his purpose. Hence to "kick the bucket." In Puritan times a certain Hezekiah Morton was in the habit of baking two or three dozen apple pies every Saturday, and arranging teem in pantry thus arranged was said to be "in apple-pie order." It was a custom of the Hungarians in their wars with 'a feather in his cap." "Deadhead" heads," because the check used for their admission consisted of a small vory death's head. Perhaps the exression was older than Pompeli, and the ivory checks were the outcome of the word and not the word of the thecks. But it is certain the word was used then as it is now .- New York

How Br'er Williams Settled It. "Dey tells me dat Br'er Williams

Press.

ione come ter grief ergin?" "Yes, he in mo' trouble." "How come?" Well, you hearn dat tale 'bout Br'er Washin'ton eatin' wid de big white 'olks?" "Yes, dey tole it ter me." 'Well, Br'er Williams 'low dat his lime done come ter settle what dey calls de race problem down disaway, en de sooner it wuz settle de better. So he give a great feas', en pick out said the fair girl.-Cleveland Plain two er de bigges' white mens in de settlement, en sen' 'um a invite ter obme eat dianer wid 'im." "De goodness gracious!" "Dat what he done. En one er de white mens cut 'im iown a pine saplin', en t'er one on-"I haven't quite decided," answered litch two plow lines f'um off his mule, an meetin' of Br'er Williams in de big road, dey took 'im ter de fur woods ter ax 'im a few leadin' questions bout dis same race problem; en w'en ley got th'oo' wid 'im Br'e. The Argentine Republic has been Williams say dat settin' down wuzn't good fer de hel't', en fat runnin' a mile a minute wuz de fines' exercise in de worl'! En -Atlanta Constitution.

...ABOUT... SUN RINGS

Queer Things Astronomors See Through Big Telescopes

In regard to the halo around the sun | which both disperses it and bends it which created much excitement out of its course. Thus the rainbow is throughout the eastern section of this produced by the sunlight passing ountry, Mr. Justice Stahn, secretary through the drops of water and the waof the astronomical section of the ter regional ways opposite to the sun. Maryland Academy of Science, says: Halos uccur only in the higher clouds Very often, when the heavens are and are more frequent than the coovercast by slight, or light, fleecy rona. Sometimes the hales intersect clouds, we observe colored rings about each other, and at their intersection the moon and the sun. They are term- round patches are formed, called mock ed halos, or aureoles. I have never suns. The particles of matter forming observed a halo about the sun in the the medium for refracting the light are latitude of Baltimore, but halos about mostly small ice crystals or ice needles. the moon are quite frequent. One of Mr. Gildersleeve, the late president of the most brilliant that I have ob- the Baltimore Astronomical Society, served in Baltimore occurred some related that at various times he had time in the beginning of 1901, Very of- observed snow storms through the telten the balos do not form a complete escope while making daylight obsercircle, but are visible only in sections, vations of the stars and planets. At Probably the reason we do not notice any rate there is considerable solid the halo about the sun is on account matter in the atmosphere that we of its intense brilliancy, and that we sometimes observe in sweeping around do not look at it directly. The best with the telescope. On rare occasions way to observe halos is to observe the we can see a bird flying across the reflection of the sun in a black mirror. field of view, of which not a sign can black glass or glass smoked on one be seen with the naked eye. Then, side. In meteorology the halos are again, small specks fly across, looking divided into two classes-the corona, like small meteors. At one time I obwhich is of small diameter, and the served a ray seeming to have its origin bale, which is of a greater extent. In at the setting sun on the horizon and the corona the color of the inner part extending as a slender beam clear to of the ring is blue, and the outer red. the zenith and lost to view a little to In the large halo the red is on the in- the east of the zenith. The mock suns side and the blue outside. The corona are mostly seen in high latitudes. We is classed as a different phenomenathat is, the light from the sun or moon | halos and mock suns are simply due to in encountering the small particles in the state of the atmosphere when it the cloud or which form the cloud is contains moisture, ice crystals and broken up, scattered or diffracted, like snow, and they existed from the rethe graftings that Prof. Rawland ruled motest times, when the earth had been at the Johns Hopkins university. Dif- fashioned to its present condition, and fracted light may be of two kinds. It there is no cause for alarm."-Baltimay pass through fine material and be more News. diffracted like in a transmission grating, or it may be broken up by encountering the fine particles and being reflected. We never have a diffraction caused by a reflection of the light from young man who was speaking of his the small particles in the cloud. The flancee. "Well, I don't want to boast," hale is supposed to be due both to dif- he replied, "but she always gets a seat fraction and reflection. When light is on the street car."-Baltimore Amerdiffracted it passes through a medium ican.

can then come to the conclusion that

Proof of Girl's Beauty.

"Is she pretty?" they asked of the

BATTLESHIP'S WEAKNESS

Barbettes on English Craft Said to Have Sunk Six Inches & & & &

The report that the Implacable's | base of the cone. Now it was obbarbettes have sunk six inches or so viously impossible for either builders is a very serious one, but while it is or gun makers to anticipate an incian error to minimize the matter, noth- dent of this sort. Probably, we should ing is gained by exaggerating it. We still hope that a good deal of exaggeration will be found to exist in the Glory started for China with a defectearly reports. So far as we can gather live barbette; this, so far as we can from the vague paragraphs going ascertain, was the direct result of around the daily press, the thing that rushing things, parts destined for vahas happened is not altogether without precedent. Twice before it has occurred with that system of gun mount- It would be interesting to learn whething of which the essence is an immense weight supported on a very small base at the bottom of the ship. The principle is, roughly, that of an is no reason for the shrick that inverted cone, and has been used in a not very dissimilar form by the French directly anything goes wrong. Any for a good ten years. It has certain great advantages, but like most advantages, there are counterbalancing factors. If anything in the ship's construction is faulty, the whole mounting is likely to sink, and the fault may be created by the strain of docking. This actually occurred with the Japanese battleship Shikisima, and it would puzzle anyone where to lay the blame.

guns were moved in dock, and the ship did not happen to be fully supported directly underneath the barbette. A sinking resulted, and it was remedied by cutting off some of the alone.—Epictetus.

say, the Implacable trouble is on all fours with that of the Shikisima. The rious other ships being crowded into her so as to complete her in a hurry. er any Peters were robbed to pay the Implacable Paul. In any case, however, bad as the accident may be, there a certain class of people love to raise number of foreign ships meet similar or somewhat similar accidents. The foreigners, however, are never in a hurry to advertise the fact.-London Engineer.

It is the peculiar quality and character of an undisciplined man, and a man of the world, to expect no advantage, and to apprehend no mischief So far as we can gather her barbette from himself, but all from objects without him. Whereas the philosopher, quite contrarily, looks only inward, and apprehends no good or evil can happen to him, but from himself

The Ringmaster of Old



He Used To Wear Evening Dress and White Gloves

A circus without a ringmaster! They | tain, and the signoring resumes her used to have black halt, parted in the petty capers. And today the ringmiddle and beautifully smoothed, evening dress (even at matinees) and white gloves. The ringmaster was almost one's earliest hero; the butcher came first, perhaps, and then the policeman and railway guard; but the ringmaster, when his hour struck, thrust these plebians, these usurpers, these Warbecks and Simnels, into impenetrable darkness. That whip was beyond all steels, all truncheons, all buil's eye lanterns and whistles; one would not exchange it for a scepter. The ringmaster's effulgence was superior even to the dimming influences of the clown's wit. That immortal dialogue following upon the bet of a bottle of "wine" (always "wine;" what is "wine?" champagne? claret? sherry? port?-port I suspect), that the ringmaster could not answer three questions with plain yes or no; how often have I heard it and how potent it always is! The first question was anything; the second question was anything; but the third, propounded by the clown after long self-communing, was steeped in guile: "Do you still beat your wife?" There is no way out of that; affirmative and negative alike are powerless to rob that "still" of its sting; and off goes the clown with his bottle of wine, crack goes the whip, round ambles the old white

master is seen only for an instant, and the speaking clown not at all!-The Cornhill.

Name Sells the Cigar.

"It takes a lot of thinking to get up a name for a new cigar," remarked the representative of a big cigar manufactory. "The popularity of a cigar is influenced more or less by the judicious selection of a name. I've known some that didn't go at all under one name to have quite a large sale when put on the market as another brand. A good name for a cigar is one that is short and eatchy. It must sound nice, for a name that jars on the ear will hoodoo any cigar. We do a lot of studying when we are about to introduce a new low-priced cigar to the public. At the factory a prize is usually offered for the best name, and there is much consideration given to the selection of the name. The smoker won't stand for a clumsy, unwieldy title, and we have to use judgment if we want to enjoy his patronage."-Chicago Jour-

In the palm of the hand there are 2,500 pores to the square inch. If these pores were united end to end they would measure nearly five miles.

Man is the only animal that eats pie horse with a back like Table Moun- and employs a physician.