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conversing witha Maj. Burke on the subject, he explained: "In my time I have inspected the hands of at least a score of stranglers. Their strength lies mostly in wrist and fingers. Before graduating as professionals they practice on dummies and resort to certain gymnastics to strengthen the parts I have named. This man now among usis certain-ly a professional. If arrested you will find his thumb flattened on the ball. If I were a detective Ishould goabout looking at thumbs.

STORY OF THE ASIA.

him and he got revenge. I well sell him if

hat Awfal Night in Georgian Bay Ter vors in Toronto.

"D. A. Tirkis, Little Current." "D. A. Tirkis, Little Current." This name and address appeared on the register at the Walker house early last week. The name is one which ten years go was familiar to almost every person in Dataici as that of the sole male survivor of e Asia. The Asia, it will be remembered, was

The Asia, it will be remembered, was a propellor that went down in Georgian bay yen years ago last month, carrying with her, with the exception of Mr. Tinkis and Miss Morrison, the 200 unfortunates who formed her passenger list and crew. In conversation with a reporter Mr. Tinkis yeaterday told again the story of that ter-rible disaster. "I went aboard at Owen Sound, in company with my uncle, on the night of the 13th of September, 1882," he southeast at the time, but we were auxious to reach our home on the Manitoulin, and besides we did not anticipate any special danger.

said. "It was blowing heavily from the doutheast at the time, but we were anxious to reach our home on the Manitoulin, and the soldes we did not anticipate any special danger.
"The steamer was billed to call at "French River, on the east shore of Georgian the way up. We went to bedsoon after going all night, we did not feel it very fresses, now quartering at the share us up pretty well. Very few had breakfast on this account, but still no great alarm was felt. At nine THE SEA WAS RAGING was terrible. Men and women, crazed with fear, were rushing around tearing the hair from their heads in handfuls. Rever the others a diministering the consolations of religion, and urging all to be calm. "J. C. low-too way that it was of no use. The wind sudden the others a diministering the consolations of religion, and urging all to be calm." "But it was of no use. The wind sudden the others a diministering the consolations of religion, and urging all to be calm. "But it was of no use. The wind sudden the others a diministering the consolations of religion, and urging all to be calm." "But it was of no use. The wind sudden the others a diministering the consolations of religion, and urging all to be calm. "Sum at the ship was helpless. The atig gargemany loke a mountainous whirlpoot and the ship was helpless. The atig gargemany deck forward of the cabin. W. D. Henry, of King Township, was that I knew that whatever hoops there might have been before was all gone. "The cabin was already broken in a tevery roll they were thrown into the sea, which was now running stadily from the cobin set, forward of the cabin. "The cabin went down aster first, were about the other stading of an due word own as I saw that I knew that whatever hops there head and went down as I saw that I knew that whatever hops there might have been before was all gone. "The cabin went down aster first, were about the other stading of an due word montary the bad and went down aster first, were they first sea, however, the abin went down atter f

mortager of the farmer, the clerk, and the solution of the wooden boats. It was the faithful to the English?"
"Even so, sahib. It was to be and itsis.
Take me to the police and I will admit everything and die like a man."
I drove him before me until we encounterde at boo of cavalry which had been scours
ing the country for suspects, and which was then returning to town with no less than twenty-six prisoners. Had Peter the unished for assault. But he felt that fate had delivered him into the hands of his enemics, and he was willing to help courie.
denied his admissions to me nothing could have been proved, and he only would have been amounter thimself. He gave the particulars of each murder with such detail that no doubt could have accompanied me that day but for the ass atched out," he would have been amount. I was a fraid that you supperted. I could have been and soon lost sight of wreck-age and the other boats and soon lost sight of wreck-age and the other boats and soon lost sight of wreck-age and the other boats and son lost sight of wreck-age and the the vold not the band.
"I had no thought of strangling you when the said to me after his trial. "I was afraid that you suspected. I could have been anout in the was the gulf into which two have sacted out," he said to me after his trial. "I was afraid that you suspected. I could have been successful I should have made my way north as fast as prosent. I must either strangle you reised and brief would not are been successful I should have made my way north as fast as prosent. I must either strangle you reise and it were tow brothers—Sparks, of Ottawa—aboard. They were splendid fellows. The were two brothers—Sparks, of Ottawa—aboard. They were splendid fellows. The should have are down in the process and you have and the sub were and the successful the police that the neck and pulled him down. The should have and the successful the police that the neck and pulled him down. The shoul the pol

"At last, on Saturday morning about 9, "At last, on Saturday morning about 9, we saw a sail. We were both almost deliri-ous and thought it a large vessel, although it was only an Indian mackinaw. I hoist-ed my coat on the oar and the Indian came

""We had practically been without food since the provious Wednesday evening, and this was near noon on Saturday. But the Indian had fat pork and 'choke dog,' and from that I obtained the best meal I ever

from that I obtained the best meal I ever had in my life. "I tried to get the Indian to take us to Manitoulin, but that was eighty miles off and too far for the Iudian. Instead he agreed to tarn us into Parry Sound and we reached there Sunday morning. The first man I met was 'Josh' Belcher, then of the Belle, but now purser of the Atlantic. You may be sure I never was so glad to see anyone in my life.

"J. C. Miller—he is dead now, poor fel-low—took charge of me. Never shall fol-get his kindness or that of his family. They could not have done more for me had I been their own son."

get his kindness of that of his halling. They could not have done more for me had I been their own son." Mr. Tinkis was a youth of about eigh-teen when the disaster occurred. He is now a prosperous business man at Little Current and shows no ill-effects of the hor-rible experiences of ten years ago. But his eye moistens and his voice shakes even yet when that awful time is recalled to his

STEAM ENGINE LORE.

Morland, in 1683, built steam engines for Watt's patent for road engine was issued Savery, 1698, built an engine to drive a

mine pump. In 1759 Robinson suggested to Watt the

Saone in 1783. Potter, a boy, in 1783, made the valve gear automatic

Giambattista, 1601, made a steam pump

In 1769 Cugnot, French, made an excellent

Blasco de Geray built a steamship at Bar-elona in 1543.

ection in 1

tary motion engines.

Smeaton, in 1764, built a seventy two inch cyllinder engine. Watt, 1781, built the first complete double

Marquis of Worcester, 1663, built an en

at Point aux Barre, where the tugs take the inside channel for Parry Sound. This was on Friday. But even yet death stared is in the face. We were far from help and could not navigate our boat. All day and all night we stayed there with starvation staring us in the face until it seemed at if the Bort of Sport Which Can be Wad in the Southern Alps of New Zealand. In November, last.
The During the night I fell asleep, but not to rest. In my dreams I saw again the horros of the day p and taket and the Southern Alps of New Zealand, in November, last.
OUT INTO THE LAKE.
It such to the woorg direction and soon found the southern Alps of New Zealand, in November, last.
It orest he wood givection and soon found the second their tent in a gully out, but in the darkness and confusion took the wrong direction and soon found the wood givection and soon found the wood givection and soon found the wood the tere tent in a gully indege for centuries, but by lying close to the fore hore, but at a nother point. The same do to have been there the goats was a watter of much discussion. Finally it was agreed u on to leave them tied up at the tent.

was agreed c on to leave them tied up at the tent. Early in the following morning they set out and soon found that a herd of goats had lately been near their last camp. They hastened on in pursuit through s wild, weird country. Sometimes they struggled through the me forest with thick underwood that greatly impeded their advance and tore their stout buckskin clothing into shreds. Low growing, beautiful ferus, rough, gigantic brakes and millions of parsuitical plants with white and red flowers surrounded them on every side, while a hundred singing birds warbied and flitted merrily from tree to tree. Then again they would be forced to creep on hands and knees over and under immense boulders or, with the greatest dif-fi sulty, to round a craggy precipice,, where the slightest giddiness meant a horrible death in the chasm that waited silently be-low to destroy the men who had dared tempt is cruelty. THE OUARRY IN SIGHT. its cruelty. THE QUARRY IN SIGHT.

Its crueity. THE QUARRY IN SIGHT. But suddenly dangers were forgotten, for beyond a sharp turn, and about half a mile away, herd of goats were seen lazily pick-ing up a little food or chewing their ouds; several little kids gamboled about in the heyday of youth and carelessness, while a noble specimen of a buck stood contemplat-ing his kingdom. Approaching warily under shelter of trees or rocks, and against the wind, we could see that he was a magnificent creature, standing over four feet high, with colossal ringed horns of about twenty inches in length; his beard was only a few inches in length; his beard was only a few inches in length; his beard was only a few inches in length; his beard was only a few inches in length; his beard was only a few inches in length; his beard was only a few inches in length; his beard was only a few inches in length; his we took stock of him, and each mentally determined to secure the prize. As we come slowly, pacter sud peteret.

As we came slowly nearer and nearer, the "Billy " became more and more and As we came slowly nearer and nearer, the "Billy" became more and more suspi-cions of some unseen enemy who was threatening the safety of himself or some of his subjects. He sniffed the wind, looked up and down and all around, walked majestically hither and thither, while his family rose and followed. Something had frightened him; what could it be? Look ! they are scared and are scampering off. An expletive escapes each man's lips as we all find all our hopes so rudely shattered. But what was the cause? See, there it is. "Well, I'm blest !" cxclaimed Jack Petitt. "Look, Nero's got loose and has followed us."

"Look, Nero's got loose and has followed us." Sure enough, there was the dog. Every gun was leveled at the poor panting beast to punish him for his faithfulness, but better impulse saved him. No more work for that day. We slept on the spot. In the morning we secured Nero more firmly and started out again. After two hours' perilous walking we again sighted the same herd. We came upon them unexpectedly in a patch of small scrub 300 feet away on the side of a precipic that ran down to a sparkling cascade. The scrub prevented us from using our old-fashioned muzzle loaders, so we quietly and carefully cutpieces of the ti ti tree, and forming them into a kind of bower that hid us from sight, slowly and cautiously advanced.

cautiously advanced.

THE FIRST SHOT.

THE FIRST SHOT. Each of us wished to get the buck for the sake of his horas, so we cast lots for the first shot. George Williams won. Inch by inch and foot by foot nearer we drew while the stones disturbed by the goats above rattled not over pleasantly down upon us and threatened an avalanche. The wind was blowing strongly against us. Every-Parliament in 1775.
Marquis of Worcester, 1663, built an engines et up in factories.
Jonathan Halls, 1736, issued proposals for genese tu pi factories.
Jonathan Halls, 1736, issued proposals for boats driven by steam.
Watt's first patents taken out, 1769; engines set up in factories.
Jonathan Halls, 1736, issued proposals for boats driven by steam.
Watt, 1768, first used oil and tallow to keep piston from leaking.
De Cans, 1616, published an account of machine to run by steam.
Thomas Payne, 1778, proposed scheme for steamboat in America.
Tabular boilers first used in America in 1875 Inventor unknown.
Papin, 1696, built an engine to run ab stat.
Destroyed by boatmen.
Newcomb, Dartmouth, built, 1712, the first self-acting steam engine.
Marquis of Worcester constructed a spherical copper boiler in 1663.
Roger Bacon invented asteamengine, 1282.

firsh. Ha i that is the kind of game we may find the dogs recognize a higher and indicate the second second

A NARROW ESCAPE.

ground. A NARROW ESCAPE. The fore we can come to his aid the mad-fened beast is a gashed him twice in the shiph. With a cry of horror we see the bround wet with his blood. But before the brute has time to do further injury the three of us have sent home our spears. Even but kerrigan falls across him and sends his sheath knife deep into the heart. One of us tattends to George, while the other two de-fend themselves against the second boar, which is killed only after a fierce struggle. George Williams received two very severe frespectively. They are seved together, and gorge was carried to the camp, where we there of us have seven and nine inches deep more obliged to remain a fortight before the aufferer could proceed. More obliged to remain a struight selfore horse back with spears, and this fashion is doably dangerone. I was once present at hour of this kind in which a wealthy young Nelsonian was literally gashed to horse by a big black boar, who cut open his stomach with a stroke as clean and straight stomach wi

as that a knife could make.

SURVEY OF GEORGIAN BAY.

Capt. Boulton Gives a Reporter an Insight Into the Work that Has Been Done.

Capt. Boulton Gives a Reporter an Insight Into the Work that Has Been Done. In 1883, owing to the numerous disasters which were continually taking place in Georgian bay on account of the unknown rocks and shoals which abound, the Domin-ion Government decided on a complete sur-vey of the coast and accordingly the spring of 1884 saw the arrival of Capt. Boulton, R. N., from England to take charge of the work, at which he has been engaged ever since. Yesterday he passed through the city on his way to Ottawa after the con-clusion of his seasor's operations. Talking to the reporter the captain remarked that work without a breach of confidence, but what he could hardly say very much about his work without a breach of confidence, but of using to the illness of Lient. Gordon, natical adviser to the Minister of Marine and Fisheries, to test the newly launched was interesting, owing to the necessity of hying out a mile upon water, a thing which canda before. The method employed was to measure a mile on shore, to mark it with the captain says has never been done in Grouped at either end. Having reported favorably on the cutter, Capt. Boulton, 23 measure a mile on shore, to mark it with his party, composed of five officers and 23 me, sailed from Owns Sound on board the Government steamer Bayfield—a board the Government steamer Bayfield—a board the Government steamer Bayfield a board the first a quarter of a century ago – for Parry Sound to finiah section which they had not completed during the previous year. Hay the notok up the section between We baushene and Parry Sound (including Do CONTERT THE SUMERT.

They then took up the section between We baushene and Parry Sound (including the Christian islands), but were unable TO COMPLETE THE SURVEY. This will probably be finished about the middle of next summer. Sufficient, how-ever, was done to show that these waters, which are in reality the head waters of the bay, are splendidly suited for navigation by the largest vessels, the harbors being good and the approaches comparatively free from danger. In the captain's opinion the best solution of the north-western freight ques-tion would be the establishment of a port somewhere between Parry Sound and Wau-baushene, which would be almost due west from Ottawa, and a direct line of railway to Montreal via Ottawa. A rather curious circumstance of the trip was the fact that two of the party took typhoid fever and one diphteria. Capt. Boulton attributed this phenomenon to the drinking of too much-water while rowing in the shallows off shore, a thing, as the captain waggishly said, rather unusual with sailors. Capt. Boul-ton left last night for Ottawa, where he will be engaged in plotting and draughting from his summer notes till spring, when, having severed his connection with the Gov-ernment and accepted a position on the staff of the British Hydrographer, which is least two long stretches along the south-ers about on let sup still remain unsurvey-ed. These are from Christian island to Colling wood and from Cape Rich to Thora-bury; but, when these are done, not only will the whole of Georgian bay have been surveyed, but also the north channel of lake Huron as far as St. Mary's river. Capt. Boulton also reports that the Bayfield, in-stead of being laid up this year as usual, will go out again un November, under com-mand of Capt. MoGregor, Capt. Boulton's def asilng master and pilot, to watch the fisheries during the close season.

road engine. Comte d'Auxiron built steamboat on Loire Watt, 1765, invented condenser separate rom cylinder. Comte de Jouffroy built steamboat on

A working steam engine was invented by Papin in 1681

Hornblower, in 1781, solved the problem f double action.

Watt's expansion engine brought to per

Beighton, in 1718, substituted a plug rod for cords to valves.

The Acolopile, a steam engine, invented B. C. 241, by Hero. Watt, in 1778, solved the problem of ro-

Watt's patents renewed by special act of arliament in 1775.

descrive laboration of the state of the part strugic. When not acting as a helper in the field he had the care of some horeses be for an dways over again that he was known by was Peter. When the was that was the was field and had fairly begun work when my statention was attracted to his hand.s. The backs of hoth were stated and lace action, was the monkey at the stables who field it, shib," he explained as held up his hards for inspection; "I was teasing." "I was teasing this hards for inspection; "I was teasing." "I was teasing the hard the rest in more than the stables who has hards for inspection; "I was teasing." "I was teasing the hard the rest in provent is the later was struck land the hard the rest in provent is the later was struck land the hard the rest in provent is the later was struck land the hard the rest in provent is the later was struck land the hard is here was all the was struck and place. The all the rest in the was struck and place. The all the mass team of the mass to me that the provent is the later was struck land the share of the mass team of the provent is the later was struck land the share of the mass team of the provent is the later was struck land the share of the mass team of the provent is the later was struck land the hard is the provent is the the art is the provent is the later was struck land the share of two house was the intervent is the provent is the later was struck land the share of two house was the provent is the later was struck land. The all the provent is the provent is the base base the provent is the base base the the provent is the base base the base base the bas

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Roger Bacon invented asteamengine, 1282. mprisoned for sorcery. Pliny, A.D. 60, described a boat run by a pot of hot water and wheels."

Here of Alexander, B.C. 260, described nachines for utilizing steam power.

Roger Bacon, about 1280, anticipated ap-lication of steam power to navigation.

NOVELTIES OF INVENTION.

Rubber belting with wire threads inter-woven in the material is a novelty in power

trans m ission. The first merchant steamer ever built in Spain was recently launched at Cadiz. It is called the Joaquin Pielago. The long-distance telephone from Triëste to Vienna has been extended to Prague, a distance of 728 miles. The sounds are heard at each end of the line with great distinctness.

lasted a week, we dined daily on royal fare. A young kid would serve us better than the most dainty dish of venison, while pigeons, kakasa and this formed a meal fit for a Lucullus. Now for the pigs. A few years ago the descendants of Captain Cook's gift to the Maoris became so numerous in this fertile land that they caused a serious annual loss to the farmer. In their search for roots they destroyed the grass and hence the food of sheep and cattle. A bonus was offered of half a crown—a little more than half a dollar for every pig. This reward aroused the slumbering energies of natives and hun-ters and hundreds of pig-killers made a handsome living. Their method was to hunt the pigs with dogs trained to fly at the grunters and hold them by the ear until the hunters could give the struggling beasts the coup de grace by sticking them to death with the long pole belted at the end with a short, heavy piece of iron or steel. GEORCE'S SAD VENTURE.

to Vienna has been extended to Prague, a distance of 728 miles. The sounds are heard at each end of the line with great distinctness. A novel invention is a spatula composed of a blade of rubber having a broad, thin steel core and a handle. Cars on the Hampton & Old Point Elec-tric road, which is about eight miles in length, run at the scheduled rate of forty miles an hour. Although the invention is a little unsea-sonable just now, an Englishman has patent-d a novel fly trap. An electric motor

The web of our life is of a mingled yarn, good and ill together

Do be natural. Λ poor diamond is better than a good imitatio

The people of the United States consume it is said, 200,000,000 bottles of pickles annually.

The area of vineyards in Tunis was only 7,500 acres four years ago. It is now near-ly double, while the quantity of wine mad has increased during the same period from 337,5.0 gallons to 2,362,500 gallons. ean

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