The Jost Powerful Fighter Affont.

The greatest of all battle ships now affoat is her M. jesty's war ship named in her honor, the Victoria. In the size of her guns, the thickness of her armor plating, and the power of her engines there is nothing like ner. Some cruisers have engines of a little greater power, but have neither the guns nor the armor. A few battle ships mount guns of equal size, but have neither the armor nor the engines. The Victoria is without a rival-theoretically.

The Victoria was built at the works of Sir William Armstrong at Elewick on the Tyne. She is about 350 feet long over all (340 between her stem and her atern post), 70 feet bread, and when leaded with ocal, stores, and ammunition draws 26 feet 6 inches of water. Her displacement is 10,500 tons and her engines are 12,000 horse power indicated.

She carries, first of all, two rifled cannon that weigh 110 tons each, the diameter of the bore being 161 inches. They are a little over 43 feet long. The prejectile to be fired from these guns weighs 1,800 pounds, and the charge of powder that propels it weighs 960 pounds-nearly HALF A TON OF POWDER

to send one projectile a flying. Each has a nominal range of 16 miles. A man has to stop and consider that although in the original Monitor the guns were of 12 inch calibre, the projectile was propelled by 15 pounds of powder. He has to do this to fully comprehend what a modern rifle is.

These two great rifles are mounted in a turret placed well forward on the deck of the ship. This turret is covered with steel armor 17 inches thick. The bottom of this turret is enclosed in and protected by a steel wall or barbette that is 18 inches thick. This wall extends down into the ship far enough happy. to protect the machinery that revolves the turret and hoists the ammunition. To handle these guns-load and aim them-no less than 29 hydraulic engines, including pumps of 2,000 horse power, are necessary. The arc over which the guns can be fired extends from 50 degrees abaft the beam on one side, around over the bow, to 50 degrees abaft the beam on the other side.

At the stern of the ship is a single long rifle, that has a bore of ten inches and fires cribes three very simple experiments, which a projectile weighing a quarter of a ton, with show some of the phenomena of fluid frica charge of 250 pounds of powder. This gun tion. He directs the experimenter to take is mounted in a remote degree like the super- | two eggs, one raw, the other hard boiled, and structure on the American ships Boston suspend them by wires from a gas-fixture or and Atlanta. On this superstructure, mounted as broadside guns, are twelve rifles with bores six inches in diameter, which throw a projectile weighing about 125 pounds. These guns project through portholes that have one comes immediately to rest. shot-proof shutters.

In addition to her cannon the Victoria carries twelve little rifles, each of which will egg turns; while the raw egg is a fluid conthrow a dozen six pound steel bolts a minute | tained in a shell, and the shell alone is turnwith amezing power and accuracy, besides a | ed by the twisting of the wire, the fluid rehost of the sort of rifles called murdering maining stationary. guns, because of the hail of death that they could shower on an exposed enemy.

turret, this ship has what is called a protec- body, and not, as some have supposed, a tive belt. It is a skield of steel

RIGHTEEN INCHES THICK

that extends from the main deck down to a tions of the earth's axis in precession and safe distance below the water line. This mutation would be impossible. shield is 152 feet long and it is placed, of side so as to protect the machinery and the opposite way. Take the two eggs and

inches thick and is supported by beams below | you have lifted your hand. so that shots striking it would be deflected. But if you do the same with a raw egg,

armor there is no ship her equal affoat.

screws of sixteen feet diameter, driven by other case the whole egg is stopped? triple expansion engines that under forced

Her magazines are the largest affeat, and hard, and then spin it." she can carry 160 rounds of ammunition for her big 120-ton guns, and much greater supplies for the smaller guns.

She is lighted throughout by electricity, by which also her guns are fired.

Such is the greatest ship which the best naval constructors of the foremost naval power of the world have been able to produce. To a power of offence so great that the ordinary mind can scarce comprehend it she adds a defensive armor that is all but invulnerable. She was built and armored at a cost of millions of dollars, her larges; cannon alone costing over \$100,000 each.

Marriage and Divorce.

Commissioner Carroll D. Wright's recently published report on the marriage and divorce laws of the various States contains much curious information. It is stated, for instance, that a Pennsylvania statue declares that "all marriages not forbidden by the law of God shall be encouraged." In Dakota a man and a woman may become married by "joint declaration." Iwenty-one States have laws validating bogus marriages where ever one of the parties believed at the time of the presended ceremony that it was legal. In Michigan and Wisconsin a sentence of imprisonment for life dissolves the convict's marriage without any other legal process. In Arizona six months' abandonment is ground for absolute divorce. In lennessee refusal on the part of a wife to remove with her husband to that State is good ground. Many other queer provisions might be cited all illustrating the great diversity in the laws governing marriage and divorce across the border, and the extraordinary character of many of them.

The Fire Be'is

Ring out an alarm and it is heeded. This is to notify you that bare substitution is practised when the great, sure-pop corn cure is asked for. Patnam's Painless Corn Extrac tor never fails to take corns off. It makes no sore spats and gives no pain. Be sure and get " Putnam's.

"So your daughter has married a rich husband?" "Well," slowly replied the father, "I believe she has married a rich man; but I understand he is a very poor husband."

Children Now and Then.

A significant hint of the condition of our ancestors as te humanity may be found in the reports of the ravages of the plague in Lon-

"Six thousand," says the chronicler, have died during the week, but of these two-thirds were only children."

It is difficult for us to comprehend the general brutality, and the lack of pity and kindred emotions, among our forefathers only seven generations back.

The torture of animals was the most popular amusement. The "good" Queen Bess and her ladies delighted in watching the agenies of a balted Sear or buil; the children of the poor were cruelly overworked and died by hundreds in the mines yearly. Even the children of the wealthy, God-fearing families were taught to serve God only at the point of the rod. Savage beatings only a generation ago were part of the daily discipline in many families.

The strength of Christian feeling in the present day finds no higher or more beauti ful expression than in the tenderness and care shown toward children. The exodus of thousands of poer little ones from American cities every summer to the mountains and sea-beaches is as sure a testimony to the power of the good God among men as was the going out of the hest of Israel from

The whole force of modern civilization is directed to their training, to making them strong, happy and good.

The old heathen Anaxagoras, when he was dying, was asked what was his last command.

"That all the children may have a yearly holiday on the day of my death," was his reply. "Then they will sometimes be glad that Anaxagoras ever lived."

The modern American does not wait for death to make the children about him

Whatever may have been the golden age for adults, yours is now, children. It is worth your while to contrast your own standing-ground with that of the child of two centuries ago, that you may rate your chances at their just weight and value,

Egg Spinning.

A writer in the "Scientific American' desother support, their long axes being vertical. Then if they are gently turned around once or twice, it will be found that, while the boiled egg continues to turn, the raw

This difference is owing to the fact that the boiled egg is a solid body an i the whole

Sir William Thompson who devised this and the following experiments, uses it as In addition to the armor on and about the one of the proofs that the earth is a solid thin crust of rock surrounding a fluid or "pasty nucleus." In that case, he says, "the observed swinging and swaying mo-

The same phenomenon is shown in the course, along the centre of the ship on each following experiment, though in a directly men that work it. The ends of the shields spin them rapidly on their sides on a mirror are joined by a heavy bulkhead across the or other perfectly smooth surface. If you put the palm of your hand gently upon the The main deck rests flush with the top of | boiled egg while it is spanning, it of course this belt of armor. It is made of steel three | ceases to move and remains motionless after

The protection afforded to the men working | it will immediately begin to spin again when the gurs in the superstructure, as distin- the hand is removed. Indeed it is extraguished from the turret, is much less, but ordinary how long you can hold your hand there is no safer superstructure affoat than upon it without destroying its motion. The this. As already stated, in the matter of reason of this is no doubt apparent. The fluid within the shell continues to revolve, To drive this great hulk there are twin | though the shell is stationary, while in the

If you attempt to spin the eggs on the draught and working up to the limit have mirror like a top, you will find that the forced her through the smooth water over boiled egg will spin for a considerable time, the measured mile at the rate of 163 knots but the other will fall almost immediately an hour. She has coal bunkers that will on its side. "Professor Mendenhall has rehold 1.200 sons of coal, or enough to drive marked that this experiment furnishes a her 1,600 sea miles at full pressure. At solution of Columbus' problem-how to cruising speed she could steam 7,000 miles. | make an egg stand on end : first boil the egg

A TAILOR'S GOOD FORTUNE.

He Wiss \$15,000 in The Louisiana State Lottery

Lightning-not political. but financialstruck in the region of Baltimore rather heavily at the last drawing of The Louisiana State Lottery. Besides the numerous small prizes of \$5, \$10 and \$20 drawn by Baltimoreans, Mr. Joseph Kass, a tailer iving at 424 North Castle street, had the extremely good fortune to hold one twentieth of ticket 93 - which entitled him to \$15 000. It goes without saying that Mr. Kass is highly elated over his good fortune.

Mr. Kass said yesterday that he has been in the habit of buying tickets in the Lottery for the past two years. In all that time he has not missed drawing some prize. They were in small sums, however, and only enceuraged him to continue courting Dame Fertune. Just what to do with the money Mr. Kaes is undecided.

The fortunate gentleman is a native of Germany, but has been living in Baltimore for 20 years. He has a small tailoring establishment in the rear of his dwelling and has been employed by the leading clothiers of this city .- [Baltimore (Md. Herald, December 3.

Consumption Surely Cured. To the Editor :-

Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases bave been permanently sured. I shall be glad to send two bottles of my remedy FREE to any of your readers who have consumption if they will send their Express and P. O. address. Resp'y, T. A. SLOCUM, M. C., 164 West Adelaide St., Toronto, Oat

Knocked out by the Black Crook.

Miss Backboy-" I supress you are fond

of scenery, Mr. Dearborn? Mr. Dearborn -"Yes; immensely." Misa Backboy-"Do you prefer Mont Blanc to the Yosemite?

Mr. Dearborn-"I think the 'Black Crook' knocks them both out,

"The Manly Art of Self Defence."

Giving "blow for blow" is often more thought of, than that other "art of self defence." which consists in defending one's own system from the assaults of disease and neglect. When dyspepsia, constipation, billousness, "liver complaint," jaundice, and the like lay hold of the system, the best defence is the immediate use of Dr Pierce's Pleasant Pellets; tiny, sugar-coated Granules, made from concentrated vegetable extracts; one a dose.

Unless a tree bears blossoms in spring we may look in vain for autumn fruit.

Hoopskirts Again

may come into style, but it is hoped not. The transformation which will bring back that style of crinolines ought to be indefinitely pesspened. Transformations in the health of thousands of women throughout the country have taken place during the past few years. Pale, haggard, and dispirited, they have become bright-eyed and healthy. The secret? Dr. Pierce's Favorite Prescription, which cures all those chronic "weaknesses" and distressing ailments peculiar to women.

It is only by labour, says Ruskin, that thought can be made healthy and only by thought that labour can be made happy.

If all so-called remedies have failed, Dr. Sage's Catarrh Remedy cures. 50 cts., by druggists.

How can we expect that another should keep our secrets when it is more than we can de ourselves ?

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Culinary Query .- Should a cook curry a chicken with a coxcomb?

The Book of Lubon.

A Man With Wisdom Lives in a Fool's

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If you would not be forgotten as soon as you are dead, either write things worth read ing, or do something worth writing.

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A.P. 481

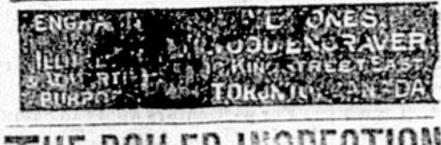
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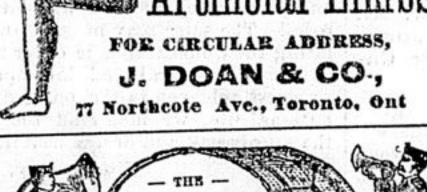
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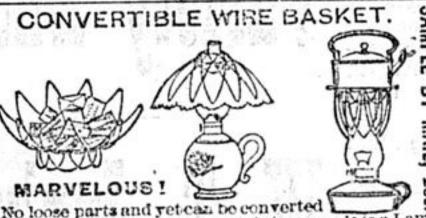
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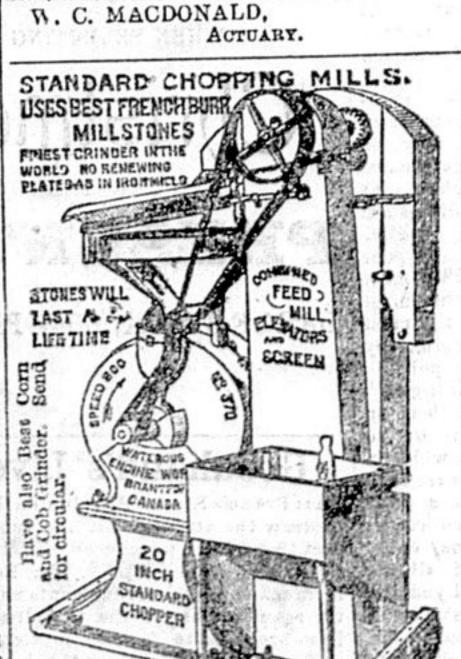
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JOSEPH MADDAUCH WRITES FROM MORRISON P .O.

J. K. MACDONALD,

MANAGING DIRECTOR.

Nov. 26th, '89. Now that I have purchased from you one of your Standard French Burr Chopping Mills, turning in on it as part payment my Iron Grinder, I have no objection to tell you that the Plates used in the Iron Grinder cost \$3.00, and latterly but \$1.00 per pair. I used over \$50.00 worth last winter. Cccasionally a Plate would last a week, but sometimes not over two or three hours.

The price of the Mill was \$65.00, much cheaper than yours, but in the end it was a very much dearer Mill. I am satisfied that Iron Grinders are only suitable for farmers who have a very small amount of Chopping to do for their own use.

J. COMEAU, MAKIWAKI, QUE,, WRITES:

Nov. 23rd, '89. I would feel inclined to apologize for not writing soozer had I not been too busy, and my desire to give the 20-inch Standard Mill a fair trial before writing. I am the most happy to state that I amen, tirely satisfies with the Mill-it is doing

splendid work. FOR SALE. Two No. 3 Iron Grinders at \$15.00 Each. Three No. 2 Iron Three No. 2 Iron Grinders at \$25 00 each, all in good order with new