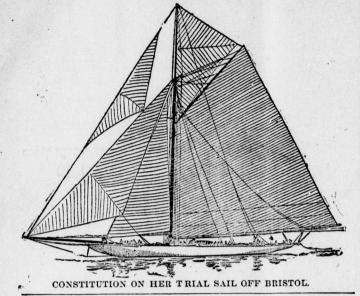


pany, is probably the lightest construct-

tric? has its champion, and among the adherents of these various stars there is the most heated controversy as to the respective merits of each. For months before the great contest these brawny axmen spend all their spare time practicing, until they develop s speed and strength that is little short of marvelous. This year's carnival is conceded to have been the most successful since the yearly meeting was inaugurated.

In the championship chopping con-



ed vessel of her size ever built, and it is largely on the lightness of her construction that those interested in the struction that those interested in the yacht expect she will make her great gains. In model there is very little difference between her and the Colum-bia. The slight differences made are expected to enable her to carry ten per cent. more canvas than the cham-pion of 1899, which alone should make her very much faster than the older yacht, but with the great gains made in the construction of the hull these gains will be much more than they

tests there were six trials and the final. Eight men participated in each of the trials, and the winners fought out the finals. As this contest is designed pri-marily to test a man's skill in felling a tree, the log, a great piece of tough wood, six feet four inches in girth, is placed firmly in the ground, as though it were a growing tree. Five minutes before the beginning

of the heat the referee's whistle summons the contestants into the inclos-They are all splendid specimens ure. of physical prowess-thick set, deep



THE CONSTITUTION'S LONGITUD INAL PLAN, SHOWING POSITION OF MAST STEP AND LEAD.

would otherwise be. Those who are interested in the yacht think there is no doubt of her beating the Independ ence, and they argue that even if the models are the same and each yacht has the same amount of driving power the Constitution, with less weight to arive, will go through the water faster than the Independence, and every one concedes that in the hull the Constitu-tion saves tons in weight over the Inlependence. The Scientific American gives some detailed drawings of the construction of the Constitution, and shows where the great gains in weight saving are made.

## NEW SPORT FROM ANTIPODES. Ax and Saw Contests Are Witnessed by Shouting Thousands.

Tasmania may justly claim the credit of having given the world a new sport. In that far-off land, among the men of brawn and might, whose swinging axes have felled the towering forests and converted their trackless depths into flourishing farm lands, has arisen a contest fit for kings; a form of ath-letic exercise calculated to bring the thrill of delight to all who have an honest admiration for good red blood and the display of mighty muscle sys-

tematically trained to do useful work. The new sport may be designated as "axmanship," and although it is of but tecent origin it has already taken the premiership over all other sports.

chested, iron muscled and bronzed from exposure. Each carries his fa-vorite ax, the fullest latitude being al-



THOMAS PETTITT, WHO WON THE CHAM-PIONSHIP.

saws and axes used this year were the product of American firms. When all is ready the pistol shot sounds and the contest is on. Scarcely less exciting is the sawing

did he win both events, but he also

In some Italian towns, instead of

giving books as prizes in public schools they give savings bank books, with a

broke the record for each.

contest. The log used is the same size

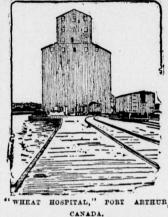
# of close-fitting glasses. With this head dress they look almost like div-**Hospital For Sick Wheat 8**

Great Cereal Infirmary at Port Ar-thur on Lake Superior - Won-derful Cures Effected.

The latest thing in the hospital line is an infirmary for sick wheat, where various allments of the kernel are treated and in many cases a perfect cure is effected. There is an immense annual loss re

i There is an immense annual loss re-sulting from wet or diseased wheat. The loss from loose smut alone is at least \$18,000,000 a year. The Depart-ment of Agriculture has disseminated a great deal of information among the farmers in regard to the diseases of wheat and the means for bringing about a cure, but not much benefit has resulted from the information. In the large wheat sections of Manitoba and large wheat sections of Manitoba and the Northwest the same conditions prevail, and it was with the object of reducing the loss to a minimum that the wheat hospital has been established at Port Arthur, at the north-west end of Lake Superior. Here an elaborate system is in use for restoring diseased wheat to a healthy state. The building is in the form of a large elevator, very similar to the common grain elevators of the United States and Canada. It is supported out in the lake upon crib work, so that vessels lake upon crib work, so that vessels may come alongside and carry the cured wheat directly to the East or foreign ports. About 2,000,000 bushels of wheat are treated in the hospital every year. Where the disease of the wheat is

of a very virulent type, it is impossi-ble to improve it in health. Diseases known as "stinking smut" or "bunt"



are beyond all help. In the advanced stages of those diseases the whole ker nel is infected with the germ and be comes a mass of spores, which have consumed all the nutritive parts of the kernel, leaving only a thin shell on the outside. When this breaks there is a countless number of germs released, which have a fetid odor and are ruia-ous to flour with which they come in contact. Kernels that are intact inside the brown skin can be successful ly treated, even though they are so black with smut as to be irrecogniza ble as wheat. In addition to this un sanitary or dirty wheat, there are ker-nels that get the dropsy; that is, they become saturated with water, and are unfit for anything except stock fodder. Sometimes an entire crop will be affected in this way, and it usually

proves to be a total loss. The drying plant of the hospital is capable of treating 6500 bushels per hour. The plant includes a series of frames of perforated metal, through which hot air is forced until the wet wheat is completely dried. The wheat is divided into three classes, depending upon the amount of water it contains and this condition corresponds to the stage of the disease. "Tough" wheat contains about five per cent, of water "damp" wheat about eight per cent., and "wet" wheat about fifteen per cent. Normal wheat contains about and four per cent. of water. After wheat in any of the stages of the disease receives the treatment given at the hos pital, it comes out in a normal condi-tion and ready for the market as first class wheat.

Scouring is the treatment given for smut. The dirty wheat is passed through rapidly revolving machines of metal and the dirt is removed by fric-

ers. It is said that wheat passing through this treatment is better for milling pur poses than the normal wheat, from the fact that a part of the coat, which has to be removed in milling, is removed by the treatment. There is none of it used in the flour mills of this country, however, most of it being shipped to Europe and Eastern Canada.

Discovery of Extraordinary Plant. What is probably the most extra-ordinary plant ever discovered has now been found by E. A. Suverkrop, of Philadelphia, who, during trips to South America, has for some years



been contributing to the collection of nis friend, Professor N. E. Brown, of the Herbarium, Kew Gardens, London. The amazing plant which Mr. Suverkrop has now found is an orchid that takes a drink whenever it feels thirsty by letting down a tube into the water, the tube, when not in use, being coiled up on top of the plant.

"One hot afternoon," says Mr. Su-verkrop, "I sat down under some brush wood at the side of a lagoon on the Rio de la Plata. Near at hand was a forest of dead shorn trees, which had actually been choked to death by orchids and climbing cacti. In front of me, and stretching over the water of the lagoon and about a foot above it, was a branch of one of these dead trees. Here and there clusters of common 'planta del ayre' grew on it, and a network of green cacti twined around

Among the orchids I noted one different from the rest, the leaves, sharp lancehead shaped, growing all round the root and radiating from it. From the centre or axis of the plant hung a long slender stem about one-eighth of an inch thick by one-fourth inch wide, the lower end of which was in the water to a depth of about four inches. "I at once went over to examine my discovery. Imagine my surprise when I touched the plant to see this centre stem gradually contract and convul-sively roll itself up in a spiral like a "But more surprising yet was the ob-

ject and construction of this stem. I found on close examination and dissec-tion that it was a long slender flat tube, the walls about 1-32 of an inch thick, cellular in construction, open at the outer end and connected at the inner end to the roots by a series of hair like tubes.

"By subsequent observation I found that when the plant was in want of water this tube would gradually un-wind till it dipped into the water. Then it would slowly coil round and wind up, carrying with it the amount of water that that part of the tube which had been immersed contained, 'until when the final coil wastaken the water was dumped, as it were, direct into the roots of the plant. The coil re-mained in this position until the plant required more water. Should the plant, however, be touched while the tube is extended, the orchid acts like the sensitive plant (mimosa) and the coiling action is much more rapid.

"I found many of these plants, all directly over the water or over where the water had been. In the latter case

# DR. TALMAGES SERMON

### SUNDAY'S DISCOURSE BY THE NOTED DIVINE.

Subject: The Curse of Speculation-In-tegrity and Villalny in Wall Street-Lessons Drawn From Gambling Crazes Which Have Swept Over the World.

[Copyright 1901.] Ucopyright 190.1 WASHINGTON, D. C.-In this discourse Dr. Talmage arraigns the spirit of wild speculation and gives some account of the financial ruin of other days; Proverbs xxiii, 5, "Riches certainly make them-selves wings; they fly away as an eagle toward heaven." Money is a gold breasted bird with silver back I with selves wings; they fly away as an eagle toward heaven." Money is a gold breasted bird with silver beak. It alights on the office desk or in the counting room or on the parlor centre table. Men and women stand and admire it. They do not notice that it has wings larger than a raven's, larger than a flamingo's, larger than an eagle's. One wave of the hand of mis-fortune, and it spreads its beautiful plumage and is gone, "as an eagle toward heaven," my textbook says, though some-times I think it goes in the other direc-tion.

heaven," my textbook says, though some-times I think it goes in the other direc-tion. What a verification we have had of the flying capacity of riches in Wall Street! And Wall Street is one of the longest streets in all the world. It does not begin at the foot of Trinity Church, New York, and end at the East River, as many suppose. It reaches through all our American cities and across the seas. Encouraged by the revival of trade and by the fact that Wall Street disasters of other years were so far back as to be forgotten, speculators run up the stocks from point to point until innocent people on the outside suppose that the stocks would always continue to ascend. They gather in from all parts of the country. Large sums of money are taken into Wall Street and small sums of money. The crash comes, thank God, in time to warn off a great many who were on their way thither, for the sadness of the thing is that a great many who were on the our sites who save a little money for the purpose of starting themselves in business and who have \$500 or \$1000 or \$2000 or \$10,000 go into Wall Street and lose all. And if there was a time for the pulpit to speak out in regard to cer-tain kinds of nefarious enterprises now is the time. Stocks rose and fell, and now they begin to rise again, and they will fail

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ishing the world with his fortunes and his forgeries; remember that famous man

his forgeries; remember that famous man whose stamboat and whose opera houses chrough Central Park in the face of decent New York and whose behavior on Wall Street by its example has blasted iseneratio. Thave not so much admiration for the French Empress who stood in here balcony in faris and addressed an excited mobility institution and quieted the fears of de-ord commercial excitence. God did not allow the lions to hurt Daniel, and He will not allow the "bears" to hurt you. Temember, my friend, that all heres scenes of business will soon have passed away, and by the law of God's ternal right all the affairs of your busi-ness life will be adjudicated. Honesty pay best for both worlds. Than and of ruinous gambling on the other. Almost very merchant is to some key for both worlds. The difference between the whole of legitimate speculation on the one world and of ruinous gambling on the other. Almost very merchant is to some stocks as to deal in iron or coal or hard wates to deal in iron or coal or hard wates to deal in iron or coal or hard wates to deal in iron or coal or hard wates to deal in iron or coal or hard wates to deal in iron or coal or hard wates to deal in or or coal or hard wates to deal in iron or coal or hard wates to deal in group the fluctuation of the markets. If the markets greatly sink, he stocks as to deal in or or coal or hard wates to deal in or or coal or hard wates to deal in group the backs, you all the creat financial prooperi-ter and Mexico and the islands of the sea to England. Five millions' worth of a share. The books open, in a few days to all the creat financial prooperi-ter and Mexico and the islands of the sea to failed. The million's worth of a share. The books open, in a few days to all the creating the projectia canno forth with great apilard to providing funcal to all the signad the providing the reprint of the land. Another com-pany with large capilard. 55000,000 co-tion; another company, with 2500,000 co-tion; another company, with 2500,000 co-tion; another compan



A HANDICAP CHOPPING CONTEST IN FULL SWING.

What the bull fighter is to Spain and as that employed in the chopping contest, but the time made is much more rapid, for the great saw cuts through Mexico, the cricketer to England, the swordsman to France, the hockey player to Canada, and the football and the wood much more quickly than the axe can go. This year for the first time the axbaseball hero to the United States the champion axman has become to the brawn loving Australians. men's and sawyers' championships were won by the same man—Thomas Pettitt, of Sprint, Tasmania. Not only

The championship contest or carnival is held yearly in Ulverstone, Tasmania, some time during the first two months of the year, under the auspices of an organization specially formed for the purpose, bearing the title of the "United Australian Axemen's Association.

The entries to the yearly competition small sum entered to the credit of the are not confined to Tasmania. but prize winner.

tion. In one stage of the treatment the wheat is thrown from the top of the elevator to the bottom floor, and the erosion is such that in a months pine planks, two and a half inches in thickness, will be completely worn out. As a great amount of dust thrown off from the smutty wheat in this treatment, the employes in the hospitals are compelled to wear face masks. These are made of hard whit



SHOWING FACE PROTECTOR.

rubber, with holes in the sides, in which are placed small pieces of dampened sponge that absorb the dust as the workmen inhale the air. Over their eyes are worn a large pair

it was almost pitiful to see how this tube would work its way over the ground in search of the water that was not."

### Little Known About Morocco

Nobody knows what the population of Morocco is. Estimates place it all the way from 2,500,000 to 9,400,000, says a correspondent of the New York Press. A large part of the country is totally unexplored. The French lately have gone in behind Morocco and extended the boundaries of Algiers, so as to take in the Tuat region, a chain of fertile oases through which run the caravan rotes. The Sultan has expos-tulated and is still expostulating, but with no effect so far as can be seen. Morocco is sometimes called the "sick man of the West," but those best informed believe that it is a pretty lively sick man.

### England Fears Timber Famine

it were not for the foreign supplies England receives a timber famine would have overtaken the country long ago, because the home-grown suphas not been able to meet a tithe ply the demand for long enough, and that only of inferior kinds of timber. says a British agricultural journal. If the foreign supply of fir alone was to fall off sensibly now the whole building trade of the country would come to a partial standstill and the wagon companies would be next to idle.

The steeple of the Cathedral of Antwerp, Belgium, is 476 feet in height, which makes it the highest church steeple in the world.