

HISTORY OF THE UMBRELLA.

People Formerly Stayed In Doors when Lt Bained, or Wore Great Coats.

There is an old conundrum that asks "What do the people of France do wrapped themselves in cloaks, pulled minute at the sun's surface.

down their hats and got soaked. they had no umbrellas. Yet it seems diameter to be continually darted into strange that so simple a contrivance the sun with the velocity of light, and as an umbrella did not suggest itself that the water produced by its fusion to our ancestors before the eighteenth were continually carried off, the heat century. And another very strange now given off constantly by radiation thing is that no real improvement has would then be wholly expended in its been made in the umbrella since its liquefaction, on the one hand, so as to introduction.

is mentioned, Mr. Lecky tells us in his surface would undergo no diminution." History of England in the Eighteenth He also says that the ordinary ex-Century," both by Swift and Gay, as penditure of heat by the sun per minemployed by women, but up to the ute would suffice to melt a cylinder of middle of the eighteenth century it ap- ice 184 fest in diameter and in length pears never to have been used in Eng- extending from that luminary to a land by men, though Wolfe, the future Centauri. conqueror of Quebec, wrote from Paris As to the actual temperature at the in 1752, describing it as in general use sun's surface very various estimates in that city, and wondering that so have been made by different computors. convenient a practice had not pene- Secchi supposed it to be about 10,000,trated to England.

philanthropist, who returned to Eng- the same scale, while M. Pouillet land in 1750, is said to have been the thinks that it lies between 1,461 and first Englishman who carried an um- 1,761 degrees Centigrade. brella, and a Scotch footman named John Macdonald, who had traveled with his master in France and Spain, temperature of the solar photosphere mentions in his curious autobiography cannot exceed 3,000 degrees Centigrade, that he brought one to London in 1778. and persisted in carrying it in wet the temperature is somewhere about weather, though a jeering crowd fol- 2,500 to 2,800 degrees, and this agrees lowed him, crying, "Frenchman, why with subsequent experiments by Bundon't you get a coach?'

In about three months the annoyance almost ceased, at 1 gradually a few probably be well within the truth if we foreigners and then some Englishmen state the effective temperature of the followed his example.

one of the contrivances of Robinson cessive, and the smaller determina-Crusoe, and umbrellas were, in consequence, at one time called 'Robinsons They were looked on as a sign of exvery slowly.

been the first person who used one in source of heat-the effect of the lens Glasgow; and Southey's mother, who being simply to move the object at the say that she remembered the time that, if we neglect the loss of heat by when any one would have been hooted transmission through the glass, the who carried one in the streets of Bris- temperature at the focus should be the tol

kept in a coffee-house to be lent out to disk would seem just as large as the customers, or in a private house to be lens itself, viewed from its own focus." taken out with the carriage and held over the heads of ladies as they got in or out; but for many years those who used umbrellas in the streets were exposed to the insults of the mob, and business on the gulf coast, where they to the persistent and very natural ani- abound. Turtles command a ready mosity of the hackney coachmen, who sale in the Northern markets, and the

THE FUEL OF THE SUR.

How It Would Consume Coal-Actual Temperature of the Sun.

Sir William Thomson has calculat when it rains?" and the answer is that ed that the quantity of fuel required "they let it rain." That must have for each square yard of the solar surbeen the general state of society in face would be no less than 13,500 olden times, and not such very old pounds of coal per hour-equivalent to times, either. We can picture the de- the work of a steam engine of 63,000 jected people of the middle ages during horse power. This enormous expendia down-pour. They either stayed in- ture of fuel would be sufficient to melt doors, or if they ventured out they a thickness of forty feet of ice per

Sir John Herschel says: "Supposing There was no help for it, because a cylinder of ice forty-five miles in leave no radiant surplus; while, on the In Queen Anne's time the umbrella other, the actual temperature at its

000 degrees of the Centigrade ther-Hanway, the famous traveler and mometer, and Sporer 37,000 degrees of

> M. Becquerel, Prof. Langley and Sir William Thomson consider that the According to M. Saint-Claire Deville sen and Debray.

Sir Robert Ball says that "we shall sun to be 18,000 degrees Fahrenheit." Defoe has described an umbrella as Seechl's estimate is probably very extions nearer the truth.

The actual heat of the sun must, however, be very great. Prof. Young treme effeminacy, and they multiplied says: "When heat is concentrated by a burning glass, the temperature at the Dr. Jamieson, in 1782, is said to have focus cannot rise above that of the was born in 1752, was accustomed to focus virtually toward the sun; so same as that of a point placed at such A single coarse cotton one was often a distance from the sun that the solar

Turtles and Turtle Hunts.

Turtle-hunting and hunting turtle errs is not only a pastime, but also a bespattered them with mud and lashed eggs are an epicurean dish much sought after. The turtles lay three nests of eggs in a season, depositing the eggs in the They have a novel method of main- sand, carefully covering them up and The turtles come out by daylight and They have no dungeons or dark cells moonlight when the tide is about threein the prison, corporeal punishment is fourths ebb, and scoop out the nest unheard of, tying up by the thumbs is just above high-water mark. The eggs never permitted-in short, none of the which are the size of a hen's egg, are old modes of punishment are recog- hatched by the heat of the sun and sand in fifteen days, when the young The system in vogue in this: When turtles scratch their way through the The first nest of eggs is laid during turtle on the beach. A nest ranges from 125 to 175 eggs. There are three species of deep-sea turn the largest sized turtle on his There is said to be an intense rival- back by a dexterous flip, catching it ly among the convicts to enter the first by the shell aft and overturning it class, and once there, it is very seldom lengthwise. Once on its back the amphibian is helpless. The desire to escape predominates in the turtle, and he never shows fight. The green turtle is another species send the bad boys to bed-without their rarely exceeding fifty pounds in weight. They are principally taken on cacious. A lion can be tamed with the gulf coast. It is chiefly hunted on account of the excellence of the soup for which it is used in hotels and restaurants, whereas the steaks from a loggerhead are considered to surpass choice Northern beef in esculence and flavor. The soft-shell turtle does not attain a weight greater than twenty-five pounds, but it is even more sought after than the green turtle, and is considered quite a delicacy by epicures.

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voted the first chapter of the volume to ment, or will they have him applying Leo XIII as incontestably the grand- for divorce, or will it be just plain j est figure in the world today. He en- murder?-Church Calendar of West titled this chapter "The White Shep Virginia. herd of Rome " This was truly a very beautiful and beatting title But I said to Mr. Creelman, "Leo NIII, is more than the shephera of Rome, he is a to whom the pope recently said in a universal shepherd - Two hemispheres conversation with Father Lorenzo Pe acknowledge his spiritual sway, and a rozi, the composer, "Hold him very more fitting appellation for the holy father would be The White Shepherd of Christendon: " Mr. Creelmanquick ly adopted the suggestion, and today his book opens with that majestle des ignation of the sovereign pontiff Leo XIII. "The White Shepherd of Christendom " Rev. John F. Cummins in Boston Traveler

Interesting Canons' Stalls.

The luck of Cardinal Vaughan in the building of his cathedral seems to extend even to details. His fifty four canons' stalls, which formerly stood in 1893. He is very learned in ecclesiasthe monastery (urch of St. Urban, tical doctrines, is modest, energetic, a near Lucerne, will be the fluest of their good administrator and organizer and kind in London. The late Lord Kinnoull bought them in 1866 and bore of the arts and launched Father Pethem to Dapplin in forty trucks. One rozi.

tires of toys, especially of toys of that size, and the present Lord Kinnouli, willing to clear out his stalls, fixed as their price the modest sum of £4,000. Cardinal Vaughan saw, and was depensively. Then the usual benefactor niture to the besitating but not lost

cardinal. London Chronicle.

What Is a Saint?

What is the essential, invariable sign of saintliness? Is it not the ardent and found not in agreement with Catholic unremitting desire of a human soul to truth. accomplish within itself the divine will? That man is a saint who honestly and with all his soul and power seeks to learn what is God's will in regard to him and who, when he has at Fifteenth and Chestnut streets was learned it, has only one desire and thought-to do God's will, braving all things even unto death.-L. Petit de explain why he was so much pleased, Julleville's "Life of Joan of Arc."

ITEMS OF INTEREST.

Archbishop Ryan of Philadelphia will have a mass at 2:30 a.m. Sundays for newspaper people.

Buffalo is to have a new cathedral. The march of business has made the location of the present edifice undesirable.

The Catholic home bureau, 105 East Twenty-second street, New York. wishes to find homes in good Catholic familles where orphan children under twelve may be adopted.

The Jesuit school at Trichinopoly, India, is endeavoring to establish a school for the Brahman girls in order that Christian Brahmans may be able to have Christian wives.

a body. It is believed a number more foy. Obedience is the supreme law of will follow.

"he deenow been laid for a bigamy indict

His Éminence Cardinal Sarto.

When James Creedman gave recently The bishop has a nervous dread of al-

to the reading world his admirable legations to come. A foundation has

Cardinal Giuseppe Sarto, in regard dear. Perozi, as in the future he will be able to do much for you; we firmly believe he will be our successor," was born at Riese, in the province of Venice, on June 2, 1835. He was educated in the Salesian institute at Cottolengo, founded by the famous Dom Bosco. He was always studious, and his seriousness was proverbial. His rector said of him, "Sarto has never been a child." Cardinal Sarto has spent most of his life in the province of Venice as a parish priest and afterward as bishop. He was created cardinal and patriarch of Venice by the consistory of June 12, is universally beloved. He is a patron

Back Into the Fold.

Another wanderer has returned to the fold in the person of Dr. Watterick, the "Old Catholic" priest of south lighted with what he saw, but did not Germany. Some years ago Dr. Watthink he could seat his canons so ex | terick went astray after the Doellin ger faction, but recently he made his stepped forward just in time, put down submission and publicly abjured his his check and presented the carved fur- errors at Freiburg. He was distin guished as a Catholic and distinguished as an "Old Catholic," having pro-

duced several scholarly volumes while in heresy. In his submission he condemned whatever in the latter may be

Why Pat Smiled.

In the gang of laborers' hired to do the work of tearing down the church an Irishman who seemed to take great pleasure in his work. When asked to he smiled, placed his hand to his mouth and whispered:

"This is the finest job I ever had. Just think of me knocking down an old Protestant church and getting paid to do it!"-Philadelphia Times.

Man Alone Denies.

There is a God. The plants of the valley and the cedars of the mountain bless his name; the insect hums his praise; the elephant salutes him with the rising day; the bird glorifles him among the foliage; the lightning bespeaks his power, and the ocean declares his immensity. Man alone has said, "There is no God."-Chateaubriand.

Obedience.

All that God has to give he gives to those who do all that he bids them to Two thousand schismatics who went do. Obedience shows men to be in out of the Catholic fold several years i harmony with the order of God, and in ago, during the trouble at Goa, Cey- that order and harmony are to be lon, have just returned to the faith in found perfect peace and strength and

furiously with their whips.

Novel Prison Discipline.

taining discipline in the State prison skillfully trying to hide all trace of at Folsom, California, and it is prov- the crawl when they leave the nest. ing a great success.

nized in this institution.

a new prisoner is received, he is in- sand and make for the sea. No matformer that they have three different ter which direction the little turtle bills of fare in the prison, and that it is turned, if it is not in the direction is optional with each man as to how of the beach, it faces about and makes he lives. If he is industrious, orderly, for it. well-behaved and in all things, conforming strictly to the rules of the the full moon of May and the first full prison, he is served with excellent food moon of June, and the two successive nicely cooked. He can have chops, nests in the full moons of July and steaks, eggs, tea and coffee, milk and August. This is the last seen of the white bread; if he is only fairly well behaved and does not do his allotted task properly, is inclined to growl and and as all of them hatch that are not grumble at the regulations of the in- discovered or destroyed, 500 young turstitution, he is given ordinary prison tles is the annual progeny of a single fare-mush and molasses, soup and turtle. corn bread; and if he is ugly and insubordinate, he is permitted to fast on turtle. The loggerhead weighs from unlimited quantities of cold water and 300 to 400 pounds. An expert can a rather small allowance of bread.

that one of them has to be sent back to a lower class.

This discipline is evidently patterned after that of prudent mothers, who suppers. It is humane as well as effihunger, much less a boy or man.

Animal Colors.

Almost every writer who treats of the colors of animals refers to Prof. Galton's observations that in the bright starlight of an African night zebras are practically invisible, even at a short distance. This has given rise to the theory that a zebra can change his stripes at will, and there is really considerable basis to the belief. "On a recent zebra hunt." writes an explorer, "several members of our party commented on the difficulty of seeing zebras even at moderate distances, although there was nothing to hide them, the black and white stripes blending so completely that the ani mals assume a dull brown appearance, quite in harmony with the general color of the locality in which they are found." A member of our party, who on another occasion gave proof that he is possessed of excellent eyesight and who has frequently hunted in simtlar localities, saw a zebra which was wounded in one of the front legs, at a distance of 400 yards, and, strange to say, he mistook it for a big haboon He says: "It galloped away like a haboon, and I could only see that the color was grayish brown. At about 500 yards from me it ran on to a little hill, and, mounting the highest rock drew its body together, just as a baboon does when its four feet are all together on the summit of a little rock." The whole subject is a very curlous

"Anybody can, see that that is ready made the you have on."

"And anybody can see that yours is fied by your wife."-Cincimmati En-I gairer, makeling income

A Valuable Collection.

A small (but valuable collection of Limoges enamel belonging to the late Earl of Warwick brought in \$52,485 for thirty-three lots when sold lately at auction in London. Four pictures in grissille enamel by Leonard Limousin, illustrating the fable of Cupid and Psyche, seven inches by nine, fetche \$2,205; an elliptical dish signed J. C. (Jean Court), \$1,885; a ewer with a representation of the Israelites crossing the Red Sea, \$1,050; a circular dish, showing them gathering manna, \$1,-965; a pair of candlesticks, representing the labors of Hercules, \$4,150; a ewer and dish in translucent enamel. \$18,900. A sixteenth century pair of stirrups of russet iron inlaid with gold and silver was sold for \$7,455.

A Monster Grape-Vine.

The largest grapevine in the world is that growing at Oys, Portugal, which has been bearing since 1802. Its maximum yield was in 1864, in which year one, and well worthly of further inves. it produced a sufficient quantity of grapes to make 165 gallons of wine; in-1874, 1461/2 gallons, and in 1884, only 79% gallons. Last year it seems to have taken an extra spurt, the expressed juice of the grapes it produced again exceeding the 100-gallon mark. It covers an area of 5,315 square feet, the stem at the base measuring 61% feet in Mirounference.

tization.



