

**FOR STEAMER SERVANTS.**

**Tips for These Must Be Added to the Expense Accounts of Visitors to Paris Next Summer.**

The large number of persons with moderate means who intend to visit the Paris exposition during the coming summer will have an important item to add to their expenses, which is not the tourist agencies, and that is the stewards' fees on the Atlantic steamers.

These tips have grown so during the last ten years of heavy Atlantic travel that a regular tariff has been fixed and recognized by passengers. Bedroom steward, \$2.50; saloon waiter, extra \$2.50; librarian, 50 cents; bath attendant, \$1; smoking room, \$1; deck steward, \$1; and the boots, 50 cents, making an extra outlay of \$8.50 on each passenger, which is the same as one would give on a thirty days' voyage to Australia.

The stewards on all lines get, on an average, \$16 per month, out of which they have to pay for uniform, washing and support their wives and families. On some boats, which are only three days in port, the bedroom steward has to pay a man \$5 to scrub out his rooms, otherwise he would not have them ready in time.

A saloon waiter gets eight seats at table, which net him \$20 each way. A cabin steward has sixteen rooms, which, with two passengers in a room, should produce \$80 each trip.

On the Atlantic boats they will not accept less than the usual tip, and will even go so far as to follow a passenger on the pier and demand it as a right.

The companies cannot stop it, they say. If they did the men would not go on their ships, and if they gave more pay the fees would be looked for just the same.—New York Journal.

**An Illustration Lost.**

He was the pastor of one of the churches on the East side, frequented by colored people. Sunday evening he addressed his parishioners on the miracles set forth in holy writ. At the conclusion of his sermon he announced that he would be pleased to answer questions asked the subject.

An aged darky arose from his seat near the door.

"Ah lak t' know jes wha' de meenin' o' de wud mir'cle an," said he.

"Well, Br'er Hawkins, I'll 'splain," declared the preacher. "Sposin' yo' fell from de top o' some high buildin', lak Ell'cut squahr, an' landed plum on de sidewalk wifout hutin' yo'self, wut would yo' considah dat?"

"An accid'ent," said Br'er Hawkins.

"Well, sposin' yo' fell from de roof o' dat buildin' a secon' time an' scaped wifout hutin' yo'self, wut would yo' considah dat?"

"A coincidence," said Br'er Hawkins.

"Well," continued the preacher, despairingly, "sposin' yo' fell off de top o' dat buildin' fo' de thud time wifout boddy injurin' yo'self, wut would yo' considah dat?"

"A habit," said Br'er Hawkins.—Buffalo News.

**Probably Prearranged.**

"We come now," said the campaign orator, pausing a moment to take a drink of water, "we come now to the marrow of the subject."

"How do you know it is the marrow?" interrupted a jeering auditor near the door.

"I feel it in my bones," instantly retorted the orator.

Hereupon the enthusiastic crowd cheered for five minutes, to the great and overwhelming confusion of the other fellow.—Chicago Tribune.

**The Joy of Parting.**

"He no longer loves me!" cried the young wife.

"Why do you say that?"

"He used to kiss me whenever he came into the house; now he only kisses me when he goes out."—Philadelphia North American.

**DR. HARTMAN'S ADVICE**

Is Sought by Female Sufferers from Ocean to Ocean.

Mrs. F. W. Goulder, 1306 Thave, Rock Island, Ill., writes: "I was afflicted for five or six years with catarrhal difficulties and was growing worse all the time. I began taking your Peruna, with a marked improvement from the first. Independent of curing that, the Peruna has greatly improved my general health." "Every bottle of Peruna is worth its weight in gold; especially to me, for I owe my present good health to Peruna."

All over the country there are women who have been invalids for many years, suffering with female derangements which the family doctor cannot cure. What a boon to such women is Dr. Hartman's free advice!—So famous has his skill made him that hardly a hamlet or town in the country but knows his name. He cures tens of thousands, and he offers to every woman who will write to him her symptoms and a history of her trouble free advice and treatment.

The medicines he prescribes can be obtained at any drug store, and the cost is within the reach of any woman. He describes minutely and carefully just what she shall do and get to make a healthy, robust woman of herself.

The Doctor has written a book especially for this class of women, entitled "Health and Beauty." This book contains many facts of interest to women, and will be sent free to any address by Dr. Hartman, Columbus, O.

**SCIENTIFIC TOPICS.**

**CURRENT NOTES OF DISCOVERY AND INVENTION.**

**A Combination Ax and Bit — The Invention of a Canadian Genius—A Continuously Heated Soldering Iron—Electric Light Telegraphy.**

**Electric Light Telegraphy.**

A patent has been granted to Carl Zickler of Brunn, Austria, says the Telegraph Age, on a system of telegraphy by means of electric light. In this method of wireless telegraphy, signals are transmitted by means of rays emitted from an arc lamp, the rays of short wave length (mostly ultra-violet rays) being the ones made use of. These rays are sent out from the sending station at intervals corresponding to those of telegraphic signals and in the direction of the receiving station, where they produce weak electric waves, by which the signals are made visible as sparks, or are made audible by telephone or electric bell, or, if preferred, may be printed by Morse apparatus. The most serious objection, however, to the new system is the lack of speed, for so far it has been impracticable to arrange transmitters and receivers to accomplish more than 8 to 12 words a minute.

**Fighting Hail With Artillery.**

In Styria, and in the country around Brescia in northern Italy, the vineyards are protected against hailstorms in a most warlike manner. About three years ago Burgomaster Moritz Stiger of Styria invented a small cannon, having a funnel fixed upon its mouth, which was discharged at the clouds when hail threatened to fall. The charge used was two or three ounces of black powder, and the effect produced was the prevention of the formation of hail. Now a new style of breech loading, rapid-fire gun has been substituted for Stiger's pattern of cannon, and those guns are being placed at 800 stations in the neighborhood of Brescia for the protection of the vineyards. The vortex of air shot from the gun rises about a mile and a quarter from the ground, and its whistling sound is heard for a quarter of a minute after the discharge.

**The Fate of Andree.**

An effort will be made this summer to ascertain definitely the fate of Andree, by following a clue that is thought to be important. In September last a buoy bearing a metal plate with the words, "Andree's Polar Expedition," engraved thereon, was picked up on the north coast of Prince Charles Foreland. It was recognized as the buoy in which Andree was to place a message and drop it after he had passed the pole. It was empty, and scientists have inferred from that fact that, since it could not have floated from the pole to Prince Charles Foreland, and since no reason was apparent why it should be thrown out, it was merely a fragment of the general wreckage of the balloon. It is supposed that more will be discovered by the searching party, and it is hoped more light will be thrown upon what Sir Martin Conway calls "this mysterious tragedy of exploration."

**Combination Ax and Bit.**

Lumbermen, campers, carpenters and wharf builders, and many others who have to work with heavy lumbars, and who have but limited facilities for carrying around a number of tools, will welcome the combination ax and augur which is here illustrated. The ax-head contains a receptacle in which a bit can be rigidly adjusted as desired. In the end of the ax handle is a small hand-grasp, similar in shape and capable of rotation just the same as the ordinary brace handle. Maxime G. Lambert of Canada, the designer of



this device, asserts that an ax lends itself admirably for use as a brace as the heavy head forms a convenient grip for the hand and its weight makes it easier to operate.

**A Fly Dance.**

Morris Gibbs describes—what probably thousands of our readers have observed—the very curious hovering, or dancing, habit of a species of two-winged flies, which assemble in groups of from 20 to 100 or more, in some spot sheltered from the wind, and indulge in a fantastic dance for hours at a time. The motions consist of alternate rising and falling in periods of a few seconds, and over a distance varying from one to four feet. The insects seem to become so interested in their sport, if sport it is, that they cannot be driven away from one an-

other, but immediately re-form their companies when disturbed. Many species of insects have the habit of hovering in the air, some in parties only and some singly.

**New Wealth in Michigan.**

At the latest annual meeting of the Geological Society of America, Prof. I. C. Russell called attention to the recent discovery that many of the swamps and lakes in the southern peninsula of Michigan are rich in calcareous marl, suitable for making Portland cement. Although partly composed of shells, the Michigan marl is principally a chemical precipitate which is still being formed. The precise method of its formation is not yet understood. The supply is practically inexhaustible. Large cement works have lately been constructed, others are in contemplation, and Prof. Russell says that Michigan can easily take a leading place in that industry.

**Continuously Heated Soldering Iron.**

Plumbers, tinsmiths, canneries and many other trades and manufactories will be glad to learn of the recently patented soldering iron, illustrated herewith, the novel feature of which is that it never grows cold while in use. Of course it is self heated, containing within itself a gasoline burner fed by



a reservoir located just below the handle. In order to make it effective the vaporizing fluid has to be fed to the burner in very small quantities, and this is accomplished by means of a needle valve operated by a rod projecting through the handle, so as to be conveniently opened and closed by the operator. The advantage of having an iron that never grows cold, in that it enables the workman to do more rapid and effective work, is so apparent as to require mere mention to be appreciated. William C. Herbert, of Canada, is the patentee of this interesting soldering iron.

**Curious Origin of Flavors.**

Among the most remarkable glimpses into hidden corners of nature that recent scientific advance has afforded are the frequent discoveries of micro-organisms in unexpected places, where they produce phenomena heretofore supposed to arise from other causes. For instance, Dr. A. Pettersson of Upsala, Sweden, has ascertained that in preparations of meat and fish containing, for purposes of preservation, salt to the amount of 15 per cent, micro-organisms grow luxuriantly, and he concludes that the flavors and odors that are peculiar to various salt conserves are due to the micro-organisms with which they are crowded.

**To Cultivate Nettles.**

The fact that nettle fiber has of late been found to produce the finest tissues obtainable from any vegetable source, has led to a project in Germany to introduce the cultivation of nettles in the Kamerun region of Africa. If the experiment is successful, the enterprise will be undertaken on a large scale in connection with the weaving industries.

**Notes.**

It is proposed to build a suspended bridge at Duluth, over the ship canal, similar to that over the Seine at Rouen. The city power house is to supply the current.

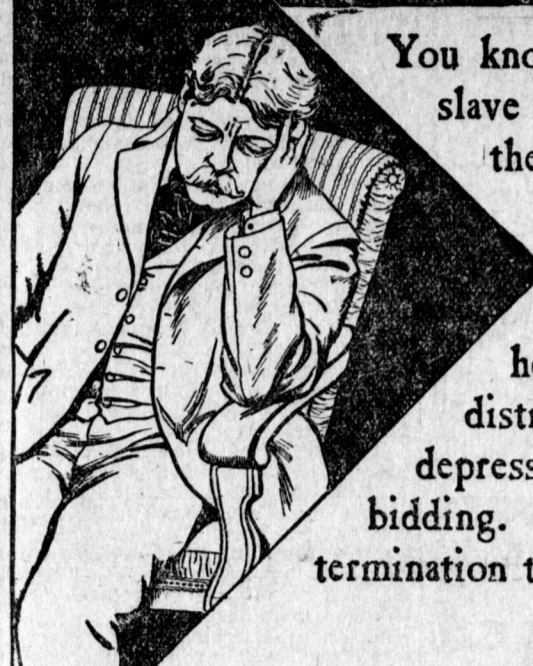
Consignments of vegetables grown on the farms of the Cuban Industrial Relief commission have arrived and they have met with high favor. The potatoes are said to be superior to the best Bermudas, as they have not the insipid sweetness of the Bermudas and are more mealy.

According to the Engineer the daily total of water supplied to London during last November was 201,281,664 gallons for a population estimated at 6,015,144, representing a daily consumption per head of 33.46 gallons. A large percentage of the water was obtained from the Thames.

A French naturalist quoted by Popular Science News asserts that "if the world should become birdless, man could not inhabit it after nine years' time, in spite of all the sprays and poisons that could be manufactured for the destruction of insects. The bugs and slugs would simply eat up all the orchards and crops in that time."

Prof. Elihu Thomson has pending, ready for issue, a patent on what he calls the "sun furnace," which he claims is adaptable to smelting ores and generating heat far more intense than the electric furnace. Metallurgists say that it is well adapted to glass-making and manufacturing of carbide. The application made by Prof. Thomson is a wide one, and after carefully studying it at the patent office, he has been granted a complete novelty. The invention is likely to interest mining men and large smelters of ore.

**OVERWORK**



You know all about it. You are a perfect slave to your work. It's rush through the day and worry through the night. There's no time to eat and no time to sleep. Already you have nervous dyspepsia, nervous sick headache, and neuralgia. Your food distresses you. You suffer from terrible depression. The outlook is dark and forbidding. You feel sure there is but one termination to this—

**That's Nervous Prostration**

And nervous prostration is something you don't want, that's certain. Then don't have it. A perfect Sarsaparilla prevents this distressing and dangerous disease, and it cures it, also. It keeps you up when especially pressed with work. It cures dyspepsia, and it builds up exhausted nerve tissue. But it must be a perfect Sarsaparilla to do this. So far as we can learn, there isn't but one in the world, and

**That's AYER'S**

"The only Sarsaparilla made under the personal supervision of three graduates: a graduate in pharmacy, a graduate in chemistry, and a graduate in medicine."

\$1.00 a bottle. All Druggists.

"I first used Ayer's Sarsaparilla in the fall of 1848. I came out of the Mexican War run down in health and badly used up. It did me so much good then that I have always taken it every spring as a blood-purifying medicine. I attribute my robust health at 78 to the use of your Sarsaparilla every spring."—S. T. Jones, Wichita, Kans., March 29, 1900.

Frequently-heard songs are not always the popular ones. There's the mosquito's for instance.

**Are You Using Allen's Foot-Ease?** It is the only cure for Swollen, Smarting, Burning, Sweating Feet, Corns and Bunions. Ask for Allen's Foot-Ease, a powder to be shaken into the shoes. At all Druggists and Shoe Stores, 25c. Sample sent FREE. Address Allen S. Olmsted, LeRoy, N. Y.

To the trapeze performer: "I catch on" and "I tumble" have entirely different meanings.

Variety may be the spice of life, but it isn't all spice.

**\$20.00 A WEEK AND EXPENSES** to agents selling our household goods. Sell on sight. Write C. H. Marshall & Co., Chicago.

It doesn't pay the matinee idler to be idle every evening, too.

**FITS Permanently Cured.** No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. Send for FREE \$2.00 trial bottle and treatise. Dr. R. H. Kline, M.D., 931 Arch St., Philadelphia, Pa.

When some feet are asleep they ought to be put to rest in a corn crib.

Piso's Cure cannot be too highly spoken of as a cough cure.—J. W. O'Brien, 322 Third Ave., N., Minneapolis, Minn., Jan. 6, 1900.

Musicians cultivate their ears; so do farmers when they raise corn.

**BILE IN THE BLOOD**



No matter how pleasant your surroundings, health, good health, is the foundation for enjoyment. Bowel trouble causes more aches and pains than all other diseases together, and when you get a good dose of bilious bile coursing through the blood life's a hell on earth. Millions of people are doctoring for chronic ailments that started with bad bowels, and they will never get better till the bowels are right. You know how it is—you neglect—get irregular—first suffer with a slight headache—bad taste in the mouth mornings, and general "all gone" feeling during the day—keep on going from bad to worse until the suffering becomes awful, life loses its charms, and there is many a one that has been driven to suicidal relief. Educate your bowels with **CASCARETS**. Don't neglect the slightest irregularity. See that you have one natural, easy movement each day. **CASCARETS** tone the bowels—make them strong—and after you have used them once you will wonder why it is that you have ever been without them. You will find all your other disorders commence to get better at once, and soon you will be well by taking—

**THE IDEAL LAXATIVE**

**Cascarets**

CANDY CATHARTIC

**BEST FOR THE BOWELS**

ALL DRUGGISTS

10c. 25c. 50c.

To any needy mortal suffering from bowel troubles and too poor to buy **CASCARETS** we will send a box free. Address Sterling Remedy Company, Chicago or New York, mentioning advertisement and paper.