

# SATURDAY, AUGUST 4, 1888.

# THE ELECTRIC MOTOR.

Six Millions Invested in the Maaufacture of Electric Motors-A Successful Rallroad Electricity in a Flour Mill-The cret of Progress

There are now about \$6,000,000 invested There are now about \$6,000,000 in vester in the manufacture of electric motors in the United States, and this large invest ment has nearly all been made within the last three or four years it represent-either the independent investment of com-panies engaged in the exclusive manufac-ture of motors, or an increase in the capitalization of companies that manufacture electric light appliances, and find the con struction of electric motors a good auxil arvial dustry Some of these companies employ many hundred men, sometimes ap proaching a thousand, and they turn out motors almost innumerable each year These motors are of all sizes, from one half horse power for driving sewing machines and such other light work up to several hundred horse power, for heavy They are becoming a driving force work in almost every industry and can be util ized in localities where the cost of obtain ing fuel would almost equal their operat ing expenses Our readers have already been inad-

familiar with the names of some of the towns and cities in the United Statetowns and cities in the childed states meanly fifty in all, that have adopted, or are preparing to adopt, the electric moto-for street railway traction in preference to hornes or cables. The systems in use in some of these places are very extended that of Montgomery Ala counting about fifteen miles of road and transporting over a million passengers annually Elec-tric roads many miles in length are also operated in some of the California cities most noticeably San Diego and Los

## A SUCCEPSFUL RAILROAD

Recently a road twelve miles long way opened in Richmond. Va. represented by its managers in a letter published in The Electrical Review to be a road of peculiar difficulty in operating on account of the sharp curves and difficult grades. Some of these grades reach the maximum even overcome by motors depending on the ad and in the length there are no less than seventeen curves around right angled cor uers. Yet the managers write with the utmost enthusiasm of the successful The cars of the road in every particu The cars of the road described as of a very elegant pattern are not only pro-pelled by electricity, but they are lighted by electricity which naturally follows and when the cold weather comes they are to be heated by electricity, in accord ance with a system not yet generally introduced, but for which patents have en obtained

Another field where the utility of the electric motor is soon to be illustrated on a large scale is found in the mining dis trict of Butte county Cal Among the Big Bend mountains making a hor curve about a dozen miles in extent, runs the Feather river At the upper end of the curve a dam, built entirely across the river will throw the water into a tunnel several miles in length which empties into the Dark canyon, the waters of the canyon in turn emptying into the river at the sower end of the horseshoe. A water wheel and electrical generators are to be located in the canyon one mile, or a mile and a half from its mouth, and from these generators will proceed an electri cal conductor which crossing over the mountains to the dam will follow the shore of the river around the entire horse show and return to the starting point. This conductor will be eighteen miles in length estimating the entire distance, and at points here and there along route are to be located elec motors numbering fourteen in tric These motors will supply the power for all the pumping banding and boisting demanded in the operations of mining after the water bas been drawn from the bed of the stream The cost of operating the motor can be easily estimated it will take a man to tend the water wheel, and another man to look after the conductor and keep it in order, and this, plus the interest on the plant, which will not be considerable, will represent the entire outlay They are building a new capitol at To peka in Kansas That might be a matter of no particular concern in New York, where mon have learned to be weary of the very word capitol But this Kansas capitol is to be built by electricity There are four electric motors at work on the building lifting the bricks, stones and mortar up to their places, and handling the stones again into position on the walls. They are said to do their work admirably

who will consent to do its errands invisi-bly and never ask a day off or the grant of liberty Does a lady want an infini-tesimal bit of electrical energy to relieve termail bit of electrical energy to relieve her boot on the treadle of her sewing ma-chine? It can be delivered in her room through an fron tox not much bigger than her reticule is the restaurant keeper plagued by an invasion of files that expel all but the most hungry and least profitable customers? They can be gently wafted to the door by a multitude of revolving fans and congred out either into the bright sunlight or the refreshing shower - New York Sun

# With a Dreamy, Emersonian Air.

"Mr Cabokia." said the young iady from Boston, softly, as she drew her skirts carefully away from the sides of the boat and gazed with a dreamy. Emer sonian air at the stalwart youth who was handling the oars. "have you never feit that aching void, that irrepressible long ing, that imperious inward cry that will dot be silenced when the soul realizes its own isolation and knows that somewhere in the trackless depths of space its kindred soul is flying on restless wing, mayhap at a remote distance, peradven

ture almost within its grasp?" "Why-of coure. Miss Howjames." re plied the St Louis young man. rather raguely, as he changed the course of the boat to relieve his eyes from the sun's fazzling glare reflected from the specta des in front of him and noted with aneasiness that he was several hundred yards from shore and a mile from any other boat, "I have sometimes felt, as you say, that sort of-er-goneness-er-in the early spring you know-nothing but ham and eggs you know at the res :0u'

"Oh, Mr Cabokia!" broke forth the young lady, impulsively, "I am sure you have often wished, with the poet, for some little isle with wings, and that you and your soul's mate within its fairy bowers were wafted off to seas unknown, where not a pulse should beat but ours, and we might live, love-but what am I

"I think," said Mr Cahokia, looking lesparingly up and down the stream and wiping his brow nervously with his hand terchief, 'you were saying something about islands and seas. When it comes to geography, Miss Howjames, I don't

You don't know what, Mr. Cahokia?" Beans

"Doans "Do you dislike beans, sir?" "Can't go 'em at all, Miss Howjames." "Mr Calokia." said the Boston young ady, with chilling haughtiness. "I think we will go ashore, if you please."-Chi-'ago Tribune.

# Patrons of the London "Tallyman."

The "tallyman" plays no inconsiderable part in the disasters of the poor, especially in the little household where the wife is vain or thriftless. The tallyman or travel ng draper is, as most of my readers are probably aware, a superior kind of hawker or an inferior kind of commercial traveler -whichever you like In purchasing and selling it was at one time customary for raders to have two sticks and to mark with a notch on each the number of goods islivered. These tallies (from the French word tailler, to cut) were the means by which accounts were kept. The tally thop is a shop at which goods are sold to customers on account, the account ng kept in corresponding books One is Talled' the tally "and is kept by the buyer, the other side is the "counter tally," and is kept by the seller Sometimes a ard is given to the customer instead of a book. The tallyman calls with his goods, his finery and his household stuffs, and include the tangent of the seller. lisplays his tempting wares to the eyes of the housewife.

Unfortunately, many poor men s wives Unfortunately, many poor men s wives ion't want much preasing. They see the inery, there is only a small sum to be add down, and it will be so easy to pay he rest by a small installment every seek! Many a good, honest workman iates the day of his downfall to the tal yman's first stroke of business with his when the tailyman will be paid, and to pay him the wife will sometimes pawn her children's things and descend to bedges which are the beginning of bad lines. The great desire of most of the failyman's lady customers is to keep the fact that they are in debt from the hus made there be and these the tail the and's knowledge, and a threat to tell the husband or to apply to him for the money is a very powerful weapon in the tally nan's armory. --George R. Sims in Phila lelphia Times.

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# ELECTRICITY IN & MILL.

Away out in Laramis Wy T., there is and Elevator company This company and Elevator company This company has a mill capable of producing 100 bar reis of flour a day and the only visible source of power is seen in a couple of little eccentrically shaped iron cases down in one corner of the roller floor But those cases are twenty five horse power electric motors. The manager of the com-pany under the recent date of April 8, pany under the recent date of April 8. This company gives a glowing account of their perform ances Among their points of excellence by refras to their uniform rate of speed the case with which power can be placed where it is wanted obviating the neces sity for song lines of shafting or still more vbjectionable belts, the economy of rocan for power plant, the saving of from in insurance rates, and 30 to bit per cent. the saving on first cost of plant. The motors he save require very little atten The tion and give better service with vary ing loads than any other power that could dae adopted

The chief secret of the rapid advance of this new mechanical agent is found in the flexibility of its resources Electricity is not the generator of power but only the agency for its transmission and distribu-tion, as it is an agent for the transmission of the human roles over the tele phone wire. Through its resources power can be distributed to any point, and in quantities to suit the sustomer Steam. water air, caloric or any known agency for generating power is either stationary or it demands stationary applicances, but protectly is its measurger boy, its Puck.

### Smallest Plant in the World.

The smallest flowering plant in existace is Wolffia microscopica, a native of India It belongs to the natural order Lemnacese, or the duck weed family In It almost microscopic m size, destitute of proper stem, leaves and roots, but having organs merged in one, forming a frond There is, however, a prolongation of the lower surface into a kind of rhizoid, the purpose of which seems to be to enwater The fronds multiply asexually by sending out other fronds from a basilar slit or concavity, and with such rapidity does this take place that a few days often suffices to produce from a few individuals mough similar ones to cover many square ods of poud surface with the minute green granules

But small as these plants are, and simle in their structure, they yet produce flowers. Two flowers are produced on a plant, each of them very simple, one conisting of a single stamen and the other of a single pistil, both of which burst through the upper surface of the frond There are two species of this genus grow ing in the eastern United States, one of them Wolffia Columbiana, about onetwenty-lifth of an inch in diameter, and the other, W Brasiliensis, somewhat smaller in size The American species has liested near Philadelphia - Boston Budget

First Chin Man (heatedly)-Ali I have to say is that I consider you a puppy. Second Data mostly----D that were the

case I could take the first prize at the dog show, and that's more than you can say.

First Man-How so? Second Diro-You lack the necessary pedigree and breeding."-Harper's Bazar,

An inventor has patented an electric contribution box for church use. When-ever a button or piece of tin is deposited in the box an electric bell rings and informs the congregation of the fact -- Detroit Free Press.

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