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COLUMBIA COTTON MILLS AT-TRACT MUCH INTEREST.

Graphic Description of the Olympia Mill, the Largest and Finest Establishment of Its Class in the World-Negro Labor Not a Success-Pennsylvania Skill Credited with Installing the First of This Electrically Driven Machinery.

Special Correspondence of The Tribune

Columbus, S. C., March 15. HE BUSINESS interests of Columbia are in the hands today of progressive men. Many northern capitalists have come here and allied themselves and their interests with the younger up-to-date southern-born business men, many of whom are sons of former Confederates, who, forgetting past differences, join hands with their northern neighbors in developing their city and surrounding country, in manufacture, agriculture and com-merce. The board of trade, the chamber of commerce, the board of health and the city councils are made up of this young blood, the average age being 38 ears. From this business element the hand of friendship and good will is ever extended to the new comer, who is received with old time southern hospitality. The two social clubs comprise the best elements of the city, and visitors for either pleasure or information will be cordially received, toyally entertained and made to feel at home. We were especially indebted to the secretary-treasurer of the Merchants and Manufacturers' club. William Gist Duncan, also to chairman of city schools, A. F. Funderlunt, and representatives of the Columbia press, for polite attention and valuable mem-

THE COTTON INDUSTRY.

We submit the following concise statistles pertaining to the cotton mill industry here, courteously given me by Editor N. G. Gonzales, of the State, one of the three daily papers published in Columbia, and regarded as one of the brightest, ablest and best papers in South Carolina. His statement has since been verified by the Manufacturers' Record: Columbia is is the largest manufacturing city in the south today. She runs 240,000 spindles to Augusta's 180,000 and Chalotte's 70,000. In 1894 she had but one cotton mill. The Olympia is the largest cotton mill in the United States under one roof, with 104,000 spindles and 2,400 looms. It makes print cloth only, and length of the 120 foot engine room, cost \$1,570,000. The Granby has 65,000 spindles and 1,600 looms and cost \$900,-

THE POWER PROBLEM.

The power problem is by far, the most interesting feature of the cotton manufacturing industry in Columbia The use of electricity as a cower in cotton mills has here-

sen considered a luxury and onomic reasons, impracticable; but the results accomplished with the two power plants here, are simply marvelous and are having an important influence upon the utilization of water powers elsewhere in the South.

water-power into electric power to run the reveral cotton mill and other establishments, is introducing new sclivity, and new social problems into the life of Columbia, and the South, even the whole country and the world, is anxiously watching the experimentation with electricity as the coming motive power. This experimenting all controlled by a master clock in commenced with the Columbia cloth mill here about six years ago. And directly by electricity. Within the last three years four other mills too and from the upper floors are through the enterprise of W. B. Smith-provided. The Olympia employs fif-Whaley, and an eastern manufacturer have been built and equipped with electric motive power-the Granbythe Palmette, the Capital city and the last, the palatial Olympia, the finest mill in the world. Columbia today is the most important center for electrically driven textile mills, in the world. The results of her experiments have led to the creation of three mills with electric power plants in both Manchester, N. H. and Lowell and Holyoke, Mass. The Columbia duck mill, built in 1895, consumes as The Columbia much cotton as 200,000 spindles can use and cost \$1.110,000. The Richland has 26,000 spindles and 760 looms. It makes sheetings. Three other smaller mills make sheetings. The Capital City, built in 1900, makes print cloth. It has some 6,000 spindles. Has \$100,000 capital. The Palmetto, built in 1898, makes print cloth, has some 9,000 spindles, and represents \$100,000 capiduck mills manufacture every kind of duck, up to 110 inches in width. The total capital invested in machine." the cotton spinning industry in Columbia is \$4,750,000. Five mills are run by electricity, the Columbia, is the first large mill run by electric power in the United States.

The Columbia, Granby, and Palmetto mills are run by electric power from a 10,000 horse-power electric plant owned and operated by the columbian canal company, a corporation of New England capitalists that taps the Congaree over, The Olympia and Capital City mills are operated by electricity generated by steam, coupled right on the steam en-

The Richland mill is run by steam. The electric light system and also the Electric city railway, are run from been accomplished since 1894.

The great electric power-house with ts eight huge turbines of 1,250 horse ower each, (making in all, 10,000 horse lower), is one of the sights of the ity and the South-a veritable mecca or progressive mill men and manuacturers, a delegation of whom rether states north to see this novelty, Inusual interest centers in this huge nterprise, as well as the New Olymwhich is the creation of W. B. smith-Whaley, to whose memory apitalists, Columbia is greatly in-

AN UNIQUE MILL.

Having viewed most of the large otton mills in New England and the forth, I feel warranted in saying the Diympia, excels them all in size, eleance and massiveness, with the nost advanced ideas in construction ind equipment. The Olympia is no insightly brick barn, with no coneniences, but as handsome as an flice building outside and furnished doubt be glad to congratulate Colum-sside far better than many hotels. bia, the Palmetto city, in having the

as are used in the finest modern city buildings. In view of the unique character of the whole plant, a brief description of its principal features based upon personal observation, as well as data furnished me by the secretary of the Manufacturers club, William G. Duncan, and the architect and builder, Mr. Smith-Whaley, seems appropriate, and may be of interest specially to manufacturers.

Imagine a palatial work shop, the main building of which is 553 feet long and 151 feet wide, with four stories of eighteen feet in the clear; with two arge clock and bell towers, beside three two-story buildings in the rear adjoining the mill, 40x140 feet each for machine shops, engine room, boller room, and also draft room 40x40. In the engine room are three large vertical engines with cylinders 20 and 45 inches in diameter by 42 stroke, each weighing 224,000 pounds, and each with a fourteen foot fly wheel, that weigh 60,000 pounds. These engines with 165 pounds pressure are capable of furnishing 2,000 horsepower each, or 6,000 horse-power in all which form the generating plant. Each engine is especially designed for operating with electric generators. The speed is 123 revolutions per minute. The power plant, which is the chief feature of interest in the mill, joins on to the center of the mill in the rear. In the boiler room are twelve vertical boilers of 300 horse-power each. There are twenty-two, 150 horse-power motors used to apply the power through the mill. They are suspended from the ceiling, below the floors on which the machinery is to be operated, the short belts run-ning through holes in the floors. There are other and smaller motors that drive the pumps to feed the boilers, run the elevators, operate the machinery in the machine shops, run the hot air fans in winter and the eeld air fans in summer.

Draft is secured artificially by the use of large fans. The absence of belting and shafting is one of the novelties of the Olympia. It is the only mill in the country so construct. ed. In fact, electricity is utilized at every point as a labor saver. It carts the ashes from the furnace, it pumps the water into the 800,000 gallon reservoir: and also supplies the mill village

IDEAL SHOP CONDITIONS.

The floor of the engine room is of cosaic concrete and marble. The walls to a height of six feet, are vainscoted with Georgia marble and the ceiling is of stamped steel and absolutely fire proof. A twenty ton, three horse-power motor electric rane, capable of handling any of the machinery, travels the entire length of the engine room, thirty feet from the floor. The switch board is a very elaborate one of Tremont marble some 57 feet long and about half the and from it all the thirty motors are ontrolled, each independently from the others.

The machine shop is of interest, taving a very complete equipment of improved tools, so that almost anything in the shape of repairs or new construction, can be made right at the mill. Beneath the shop is the heating and ventilating plant. The condensers and air pumps are

located in the basement of the boiler com, and the floor is cut away over hem. They consist of three sets, each of 3,500 horse-power, this large capacity being necessitated by the The development of the Congarce high temperature of the water in summer.

The mill is equipped with a humidifier system; a lighting system of 350 are famps; combination freight, and passenger elevators; and a clock young he is it is unnecessary to tell. and passenger elevators; and a clock system, including a tower clock with four electric dials, and twelve electric clocks, distributed through the mill, the engine room, which also operates the watchman-detective system. Modthat mill is about the first in the cin sanitary plumbing, with mosaic world to have its machinery driven and marble work in the closets and passenger elevators to carry the help een hundred hands, all white, the experiment with colored help having proved a failure. The product of the mill is 64x64 print cloth, 38% inches The Olympia runs 104,000 wide. spindles and 2,400 looms. The spindles are the best Woonsocker & Press company manufacture, and the looms are the improved Draper, 40-inch pattern.

DOES IT PAY?

The question is asked, will such a palatial mill pay its stockholders Mr. Whaley, who is an expert architeet, builder, mill-engineer, and has planned mills for different companies, says it will. "The cost of running this enormous plant and the other plants here, electrically, is less than by steam," says he, "the cost of re-pairs in the steam mill here, has been wice as great as in the electric mill. though the latter is much larger, and cause of the more uniform speed of electric driven machinery it produces four per cent, more goods to the

As the Olympia's maximim consumption of power is 3,600 horse-power and the engines generate 6,000 horse power, the excess is disposed of to the Columbia Electric Street Railway, which also lights the city.

A NEW ENGLAND VILLAGE. A unique feature here is the New England village connected with these mills. This mill village, exclusive of the mill, cost \$200,000. The streets are laid out with double rows of shade trees. The houses of the operatives are superior in character, and have all the modern improvements. Every sanitary precaution is taken. A spehospital with free nursing and free attendance is provided, also, free schools are specially conducted he surplus power of the Olympia. the mill children. In order to inter-Phese mills employ from 4,500 to 5,000 est the operatives in church services, hands, all white people. All this has President Whaley of the management offered the villagers to support a preacher and give \$2,500 if any denomiration would subscribe \$2,500 additional and build a \$5,000 church. This offer was, accepted by the Episcopal church. In the way of amusement for the operatives, free vaudeville entertainments several evenings each week ently came from New England and free Sunday concerts are provided by the Electric railroad which is under the same control as the mill with a connecting line run into the heart of the village. Mr. Whaley expects with such opportunities and enother enterprises backed by Northern vironments, to command the best class of operatives in the market and thus secure the best results. The manufacturers and owners of cotton mills throughout the country are watching this feature of the experiment with much interest, as also the use and economy of electricity, as a motive

CONGRATULATIONS. Scranton, the Electric city, which first made practical use of the electric railway in the United States will no

cotton mills in the world and upon being the first to introduce electricity as a motive power in these mills. However, Honesdale justly claims the credit of furnishing the mastermechanic in the person of Richard Thirsk, one of her citizens, who while South in 1894 and 1895, installed the very machinery into the Columbia Duck Mill, now electrically used, that has made that institution so famous as the pioneer electric mill of the country.

The National Elevator Works, of Honesdale, in which so much Scranten capital is invested, and of which Mr. Thirsk is now superintendent, also claims the honor of being the ploneer elevator company in the Unit-States, to equip their factory throughout with electric motors for the transmission of power, and that too, within 300 yards of the very spot where the first locomotive that ever ran on the American continent-"The Stourbridge Lion," made that wonderful exhibition August 8, 1829 J. E. Richmond.

A Chat with Buffalo Bill

T IS no wonder that people go more or less daft over "Buffalo Bill." It is no wonder that we as a nation are proud of him and greet him with adulation and dollars whenever he comes our way. The writer of this is prepared to burn incense at his shrine to the end of the chapter and to look back with unusual pleas ure upon a chat with ohe who is distinctly a representative product of America.

He didn't greet one of his humble admirers yesterday with a war-whoop, neither did he give an exhibition of marksmanship by shooting the buttons off the bell boy at the Jermyn. sat down and talked very mildly and politely and didn't seem to have any guns or swords immediately at hand.
The general public thinks of Colonel Cody as the majestic figure on a magnificent horse, the sweeping locks falling upon massive shoulders, the head bared, with a regal gesture, befor the applause of thousands, the superb grace and dignity of one who has done things in the world. It thinks of him as the great Indian fighter, the brave soldier and the man who has perhaps received more attention and admiration from those of lofty estate on this continent and abroad than any other American. It s often most satisfactory to see penple in professional life similar to that of Buffalo Bill, at long range, but in his case it may be a satisfaction to know that he is twice as interesting at near acquaintance,

The first impression one obtains is that of his entire simplicity. He is not eloquent regarding his own deeds, the marks of favor he has received from those the world calls great, nor of his successes. Get him started on the subject of some of his heroes and he waxes eloquent enough, but he is modest indeed as to himself. One is not disenchanted at close range with regard to his appearance. Those who seldom see him dismounted have no idea of the stately presence of this man with his more than six feet of stature and the nobly poised head on shoulders as erect and square as if they belonged to a soldier of twenty-five. His fine silky hair, although touched with the snows of years, curls in boyish tendrils about his temples and neck, and his eyes, so full and but although he talks of age coming the listener feels that he will never

He has the fine, delicate complexion of a woman despite the decades of frontier exposure and his present outdoor life. If Colonel Cody would allow his name to be affixed to some cosmetic as being "the kind I always use," he would reap a fortune beyond that annually rolled up with the assistance of Indians and Teddy's Rough Riders. Those think of him as the bluff buffalo hunter, the Indian scout, whose keen eye it was impossible to clude, scarcely reconcile with their tales of him the polished gentleman with the long,

trained in kingly courts. Vesterday he were the brilliant souvenir of a famous buffalo hunt of nearly three decades ago, when he rode like the whirlwind of fate over the plains with the Grand Duke Alexis of Russia. The souvenirs of that great chase are wonderful heads of buffalo, blazing with diamonds and They are treasured as the gift of the Grand Duke, whose visit to this country is recalled with pleasure by many, Colonel Cody carries many other pet knight. He is a man they would marks of favor of monarchs and princes, but none are more valued than never murmur. these splendid jewels.

But if you want to stir up Colonel name of General Miles, that is all is needed. If the general were the prorequire any other advance agent or

and admirer. "Why!" exclaimed the colonel, his blue eyes flashing like steel, "he is the greatest general of them all. There right points, 5 to I, and checkmated was never anybody to compare with him, in some respects. He fights with his head; that's the way Miles fights. While the other little fellows depend on tactics and numbers and builets, Miles uses his brains. Why, that man knows the condition of every horse that every soldier rides. He knows his men and their equipment down to the finest detail. He knows which company is best fitted to go here or to be sent there; and then he knows the roads, every inch of them. He can tell which route is best for the artillery and where the cavalry can make fastest progress. He knows which one to pick out for the infantry and, then, he doesn't leave anything to chance.

"The scouts are sent out here, there and everywhere, and he doesn't allow his troops to be surprised and cut up in ambush. No such blunders where Miles is in command. I tell you," and his voice rang out like a call to arms, "I tell you there's a leader, and he will be our next president. They can't keep him down. I haven't any kick against this administration, it's all right, and I tell you, too, that man Hanna is a smart fellow. He's all for McKinley, and it was for his interest to keep Miles down. They've done it, too, but they can't keep on doing it. Some of the people in this country don't appreciate Miles. They call him a parlor soldier, but he is the greatest general we have had in many a year, and he can endure hardships which most men would shrink from, and it was to Miles that every Indian chief from Sitting rith such plumbing and ventilation finest and largest plant of up-to-date Bull down has had to surrender.

"In that winter of 1876, after Custer was killed, there was a great cry that the troops must go home. The men were worn out and exhausted and they didn't want to spend another winter cut, for they couldn't endure it. Miles slender hands and the ease and grace said. I will stay on the frontier with take all the responsibility. You just of a patrician, the manner of one hey men, and stay he did with a little company of infantry. It was a birter, cruel winter, but he slept under neither roof nor canvas when there weren't roofs and canvas for his men, and he endured frightful privations for months without a complaint. More than that he so planned an attack on a hostile tribe which had been committing depredations in the vicinity of the camp that he suppressed an uprisal, capworn as sleeve buttons and scarf clasp. | tured 200 horses and thus, before the breaking of spring, had his men all 'Paddy Miles,' as his solmounted. diers all love to call him, is no cargo into the jaws of death with, and

"He has accomplished the most won-Cody's enthusiasm, simply mention the | derful results with the Indians," continued the colonel. "In that war of religion, the ghost dances of 1890, when prietor of a great show, he would not the Indians were maddened with the frenzy of fanaticism, General Miles press manager than this devoted friend planned the campaign as a skillful player plays a game of chess. Nothing is so difficult to quell as a religious every move they made, and while it was not a bloodlese victory, yet no other could have wrought it out with so little loss of life. General Miles." added the speaker, "is the most humane, the most modest and the wisest military man of the day." He then spoke of the letter he had

just written to the general regarding the hoped-for visit to the armory ball "I'm telling him," he said significantly, "that this is a great Miles' country up here and he must be sure to come. When asked apropos of the Indian question whether General King is correet in his sarcastic comments prevalent in his novels regarding the disadvantage in which the United States army labors in Indian warfare because of the hampering orders dictated by some one in Washington unfamiliar with the situation on the frontier, Colonel Cody admitted that there was some truth in the complaints. then told a characteristic experience of his own where the officer in command had received orders from Washington to refrain from firing on the Indians who had been killing white settlers until they began hostilities on the troops, "Buffalo Bill" had in the meantime asked for a detachment of six men and a sergeant to do some reconnoitering. They had started off and tound the Indians red handed from a horrid deed of blood. They had shot seven

his hands in distress and wailing that he should lose his commission for disobedience of orders. Colonel Cody has only one swear

and routed the remainder when the

captain in charge came up wringing

indiscriminately, but in describing this seene he grew a little excited and re-" 'Look here captain' says marked: 'you didn't do it. You aren't to I'm the fellow, b'gosh! I'll write back to Washington that Buffalo Bill and a few other fellows were off on a bit of a trip and found the Indians killing and burning and pitched into 'em, b'gosh, and you and the troops came up just in time to relieve us. Well he thought that was a great idea," chuckled the colonel, "and he wrote the message and sure enough he got a promotion for bravery and dis-

"No. I'm about done," said Colonel Cody in response to a question as to his future plans, "I believe this is my last trip. I don't mean to die a show-I want to leave some other memory behind me-the memory of having done something for my fellow

"But you have done something," his listener protested, "you have made a unique spot in the records of your ountry. You have done much for the younger generation in an educational way; you have shown the world what brave man can be and do, and the world loves a leader, one who can conrol men, and do things, not merely dream them."

"Do women like that, too?" he said onderingly. "I know men feel that way. I know men will follow one in whom they have confidence into the gateway of distinction, because they chance; he has planned for their protection at every point, but they lose heart with one who goes in hap-hazard and in whom they can't rely.

Then he continued: "I've picked out he place where I shall lie one day, beneath that marvelous western sky, the sun and the stars. The town of Cody is my pet and my pride. have reclaimed it from the desert. I im planning to give comfort and happiness to a multitude of dwellers in what was once known as the arid

"Why, don't you know that beyond he Missouri river lies the richest half of this country? The earth is teeming with precious minerals, and now that irregation is reclaiming the waste places it can be made a heaven. It osts \$14 or \$15 an acre to fertilize farm land in Pennsylvania. For imount you can buy forty acres of land with perpetual water privileges out there where you have no master but God and do not have to pray for rain, and where no walking delegate omes along and tells you to strike," Incidentally, Colonel Cody paid a aigh tribute to the citizen soldier, "It was not the officers," he said, "who von San Juan Hill. It was not even a week later, Teddy Roosevelt, brave as he was and patriotic, but it was the volunteer sol-

knew little of tactics and of military

word, apparently. He doesn't use it traditions, but who saw some men on top of that hill and got there and took

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ductions.

With regard to the West Point affair, the colonel expressed himself as greatly pleased with the stand taken by the government. "I believe in trained soliers," he declared, "but there is no need of training them to be bullies and thugs. If there is any place where : man needs to be kind and unselfish, it is in the army. Discipline is all right, but there is no call for a boy to be brutal to another because the other

Colonel Cody is certainly a type of omething which is swiftly passing from our race and our country. He is distinctly Western, for very early he was taken from Iowa to Kansas. "bleeding Kansas," where the fiercest stage of fight for free soil was in progress, and it is a singular fact that his father was the first man to lay down his life for the negro, as he killed in one of the wild battles for a free state in 1856.

While the people go to his show and look with interest on his Indians and his gallant cavalrymen, the greatest attraction of all would be lost if the man so long known as "Buffalo Bill' did not himself ride at the head of the column. He is a unique figure and one that the world would miss if he stepped out of it forever. So, long may he live to cause the heart of the sordid American public throb a bit faster and may he finally realize the dream of his heart and spend a peaceful, beautiful old age realize that he has left nothing to in that ideal city of his building at the gateway of Yellowstone Park.

GONE TO THE VERGE.

From the Detroit Prec Press. This young man was not so confiding as he was, and his ideas of friendship are not so exalted. Yet he takes it philosophically and is willing to

place a heavy credit in favor of ex-

perience. "I started in a small way," he tells, and I had no idea that my business would expand rapidly. But I find good many leaks and drains. surse you know Jones. He is my friend and knows about horses. when my one horse went lame I consuited him as being the one friend I had who, I thought, could help me out.
"'Pretty bad shape,' he said as he looked the nag over. 'Need him on

your delivery wagon, don't you?" 'I need him or some other horse and asked Jones what I could get for the iame one. He looked him over, felt his legs, examined his eyes and teeth and finally said that, being a friend of mine, he'd give me \$40 for the horse. I took it. That same afternoon he sold the horse for \$80, a fact I learned about

'Now,' said Jones, 'I'm not the man to leave a friend in a scrape. I'll just dier, the individuality of the men, who rustle around and find you another New York Announcement.

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" "Thank you, but keep within a hundred. I can't afford to pay more. "Next morning my friend showed up with a horse he told me I could have for \$98, though he was really worth more. He was sound, gentle, 7 years

"He had bought that horse for \$60, He had spayin and ringbone, was knee sprung and 13 years old. So Jones had made \$78 off me and left me with one of the worst old crowbalts you ever saw. Pin not saying much about it. for Jones is my friend, you know. But an old codger that buys croceries from me says friendship ceases in