Scientific American.

Scientific American

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To our Subscribers .-- The End of the Volume.

This number concludes the Fifth Volume of the Scientific American. From a small beginning, it has grown to have the largest circulation of any other paper devoted to the same objects, in this or any other country. For our extensive circulation we are more indebted to the interest which our subscribers, universally, have taken in its prosperity, by the zeal they have exhibited to promote its circulation and widen the circle of its influence, than any other paper ever published in our land. To you we can say with gratitude, "Your breath hath filled our sails." We have the same trust and confidence in the good will and kindness of our subscribers that we ever had, and which has never disappointed, but more than realized our expectations.

In casting a glance over our labors for the past year, we cannot wrap ourselves up in the habiliments of self-pride and say, "we have done all things to perfection." Mortals are not faultless : all have their faults-the best have their failings. We have always endeavored to conduct the Scientific American im- notice; and we also saw much that was literpartially, honestly and independently. With- ally worthless. Mr. Emery, of Albany, exhiout fear, or regard for favor, we endeavor to speak and do what we think is just and right, tural implements that we ever saw collected and leave the consequences to the Great Ruler.

As a paper devoted to science and the mechanic arts, it has not its equal in this coun- friends, whose machines had appeared in the try in any respect. We do not say this as a Scientific American. Among these we may mere matter of boasting,-this is universally admitted on all hands. We present to our readers more new inventions, illustrated, more real machine from Rochester, for sawing ship and every-day practical information, and a greater other curved timber, which is illustrated in variety of well packed condensed matter every No. 3 (same volume,)-this good machine, as week, than any other paper. A yard of cloth | it should, commanded a great deal of attenis not valued as a yard, but according to its quality, neither should any person value a scientific and mochanical paper by its size, another straw cutter-an entirely new onebut by what it contains. Our advantages in obtaining useful information, and a knowledge of what is new in the arts, are far superior to those of any other paper in the United States. Our correspondence is very extensive, and so is our acquaintance with practical and able inventors and mechanics. This acquaintanceship has been of many years standing, and, with many, our friendship is of the most intimate nature. This enables us to obtain more new and useful information relating to inventions and discoveries, than any other paper in our country. To inventors, our weekly list of patent claims are worth the whole price of their subscriptions, and no other paper in our country presents anything at all like the information we have presented, and can present, relating to patents and new inventions. We have added improvements to every new volume, and we will make Volume 6 superior to all its predecessors. We are determined to labor more assiduously and fervently than

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The Great State Fair, We took the opportunity, last Friday, of

visiting the State Agricultural Fair, held at Albany. We were assured that the day was the most pleasant of all the preceding ones of that dusty, dusty road, between Albany and Troy. The Fair tents covered an extensive area, but not more so than those for refreshments, gambling, and all manner of Riff-Raffs. In one place there were Irish jigs going on, as a faithful specimen of the finest peasantry. full of humor as at Donnybrook. Circuses. raree shows closed up the back ground, with "warm meals at all hours," by a representative of the press, who, no doubt, had the wisdom to discern that food for the stomach was as necessary as food for the mind and a feast tor the eyes. Along with much evil there was much good.

With the live stock it is not our province to deal although we have some skill there, Hal, and have been held a connoisseur in beef and mutton. We can, however, say a good word for what we saw of that, more than we can say for the drinking and dancing. "Mechanics' Hall " was the best situated tent on the ground, and the most interesting. It is morally impossible to give an abstract notice of all we saw. We saw many good, new, and useful things, and many, no doubt escaped our bited the best and greatest number of agriculin one place. He was awarded quite a number of prizes; and so were some of our old mention Lerow & Blodgett's Sewing Machine, on page 1, Vol. 5., Sci. Am.; Mr. Wright's tion; Bertholf's excellent Straw Cutter, on page 52, was there; and here let us mention which we saw, viz., that of Cleveland & Ba-, ker Adams, of Jefferson Co., N.Y.; this straw cutter cuts the whole length of the straw up in any manner, for the accomplishment of the into pieces at one revolution of the roller. It is very simple, no feeding rollers are used, the feeding blades, of which there are a great number, revolve on a long roller, and cut the straw against stationary knives. Mr. Adams, from Hadley, Mass., was there with his improved Felloe Machine, and his superior Dog hibited a carriage of great beauty. There for planing machines, all of which have been illustrated in our columns. The Apple Paring Scoharie Co., which did credit to the inventors. Machine of Mr. Weed, illustrated on page 84, was also much admired ; Mr. Brown's Candle Mould, illustrated on page 164, was the subject of special notice; Dick's Anti-friction Press and Punching Machine, illustrated on page 220, was exhibited by Mr. Holmes, of New York, and had no equal there; Groshon's Patent Corn Planter, illustrated on page 327, was highly admired; Mr. A. H. Brown's hose coupling, on page 332, was in in every case where an obstacle is presented or

ration, was at work ; this improvement should ther was equal to the French. The discovery be more extensively introduced-it has but to is a chemical one. Being determined to speak be seen to be admired. Our friends Hoard & of nothing but what we saw with our own Bradford, of Watertown, N. Y., had one of eyes, we must say, that for want of Jack the the week, as a rain storm had laid the dust of their unique and compact engines and boilers Giant Killer's boots, and owing to the great in full swing ; it attracted no small degree of crowd, we had too soon to bid adieu to Manuattention. R. V. DeWitt, C. E., of Albany, facturers' Hall, taking a last glance at the unhad a model of his Helex Boiler there; it may rivalled display of Jewelry, by our old friend be termed the "Turbine Boiler;" it is undoubt- James Meeks. Ah ! here let us add that we edly an economizer of fuel. John Rodgers, of noticed some of the linen thread made at Lan-Albany, a first rate engineer and machinist, singburgh, by Mr. Fisher; this being the first exhibited the best tobacco cutting machine we linen thread made in America, it did some ever saw; it is a rotary cutter, with two curved arms, on which the knives are placed; it ments have yet to be made before it can rival would make a first rate power straw cutter. that made in the north of Ireland and Scot-Mr. John Gibson, of Albany, had his "Woodworth's Planing Machine" in full operation; state, that the principle embraced in the same patent, was employed in a separate machine,

> turning out excellent mouldings. Albany and Troy being celebrated for the manufacture of stoves, the number exhibited struck strangers with astonishment; it is no easy matter to say anything new about stoves -we believe the majority of them are specimens of unsound devising ; we saw one, however, in full cooking sway, viz., that of Mr. Shaw, of Albany, which gave us a very favorable opinion of its merits : it applies the heat, thrown down below the grate to the whole purposes of cooking and baking also. Mr. R. Hilson, of Albany, patentee of a Hot Air Furnace, exhibited a model grate for coal-burning locomotives, and equally applicable to stoves; the centre of it is a hollow elevated half sphere, to prevent the caking of the coals; this grate is an excellent one for stoves.

> Messrs. Hotchkiss & Sage, of Windsor, Broome Co., N. Y., exhibited their Noddle Iron for saw mills, and an improved step for plumbing the spindles of stones and wheels; it is arranged to move the spindle plumb in a bush according to the load on it; it is a new and good invention. Mr. Rowe, of Albany, exhibited a most excellent and ingenious machine for splitting and rolling leather; we have never seen a machine to be compared to this same objects.

> There were some excellent carriages on the ground. A splendid Brougham, from the coach factory of Gould & 'Co., of Albany, took our eye; Eaton & Gilbert, of Troy, exhibited a fine Omnibus. Mr. Wemple, of Albany, exwere two carriage inaprovements from Old One was the Patent Coupling of D.W. Seeley, of Carlisle, for vehicles, which has not and never had its equal in our own nor any other country. Our cotemporary, Mr. S. Hosack Mix, editor of the "Schoharie Patriot," exhibited a Wagon for Plank Roads, with his improved "oscillatory rolling axle," which is the grand dissideratum for changing the axle to accommodate itself to the line of draught

In Manufacturers' Hall the show was good subscribers will try and get others to club had not its superior there, although a plow has been allotted to the United States than to along with them for Volume 6. We intend belonging to Messrs. Starbuck, surpassed all but the place was mud to the knees; it was any other nation excepting France; but though others, in our eyes, for superior workmanship. impossible to do justice to ourselves or others to lay out considerable more expense on it we have 80,000 square feet allotted to us, we Mr. Ide's improved Grain Drill, page 372, and without a pair of "California boots." Among than on our former volumes. It will be the shall probably have to ask for more room. The best Encyclopedia-as a weekly paper-of the improved Grain Separator of Messrs. Her- the many things presented, we were especially American agont, Mr. Thompson, writes that mechanical and scientific knowledge, ever pubring, on page 408, were held to be unbeatable struck with some splendid specimens of colorthe Stateof 4 York alone would, if allowed, lished. We hope subscribers will send in in their line. Churns and horse-powers were ing on cotton, silk and wool, by P. B. Leddy abundant,-some of the latter were good, and of Albany. Knowing the great amount of The prizes to successful competitors will their subscriptions early. We can assure some were worthy of a more benighted age. practical chemical knowledge required to be amount to at least \$100,000, and will be every man, that he will get the full value of As usual in all Fairs, there were plenty of good at this art—an art to which we are all awarded without distinction of country, by as his money, and will never repent having be-Washing Machines, the newest and best of indebted for personal decoration, and respectcome a subscriber to the Scientific American. which was that of Mr. Joseph Hall, now of ing which so many are ignorant-we cannot Engravings. Lansingburg, N. Y., it is named the "Conca- but say that the specimens exhibited did great To Our Cotemporaries. It has always been allowed that the engravo and Convexo Roller Washing Machine;" credit to Mr. Leddy, and were highly honor. We sincerely thank our 400 cotemporaries it is simple, only consisting of two rollers and able to the establishment from which they! vings in the Scientific American, far excel who have published the Prospectus of Vol. 6, those of any other mechanical paper; we will an endless apron; the apron saves the buttons, came, viz., Mr. Giffen's. Mr. Roy, of West Sci. Am. We have always received the most &c., and allows delicate articles to be safely Troy, exhibited some shawls made at his fac- courteous and best wishes of our brethren of still keep at the top of the sheet. Our next volume will present the greatest number of washed. The rollers are graduated with coiled tory, which, in every respect, rivalled those, the Press; to you we are greatly indebted for springs to accommodate themselves to the made in Scotland. We also saw some leather our extensive circulation. As you have helped unrivalled illustrations ever presented in a weekly paper. Our readers may depend upon washing of all kinds of clothes. which was tanned by Hibbard's new patent to lengthen our shadow, may yours never grow Mr. Winnie, of Albany, had a steam engine in process in fifteen minutes; some may say, less. If we can do anything in this city for a it. that their subscriptions will be seed sown upon good ground, which will spring up and operation, with his "Patent Cut Off," which "this process is too quick to be goed;" well cotemporary editor, or publisher, we shall al appeared on page 268, Vol. 4, Sci. Am. ; a we say "it is not, if the leather is a test?" ways feel happy to do it. bear them good fruit.

section model, showing the whole interior ope- The samples were well tanned; the calf lea credit to Mr. Fisher, but very great improveland.

In Floral Hall the exhibition of Fruit and the character of this machine being so well Flowers, was refreshing to the eye, and in the known, we need say no more about it than to centre were the applied instruments, which were delightful to the ear. A piano with the Dolce Campans Attachment, which appeared in No. 9, Sci. Am., from the manufactory of Boardman & Gray, was a splendid instrument, and so was a six octave, by Ballantine & Barlyyt; this instrument exhibited great skill and execution in workmanship.

> Owing to the deplorable state of the ground, and the great crowd pushing and driving, many good things, which we would like to have seen, were no doubt overlooked. Two objects of our visit to the Fair were, to see what was new in machinery, and to find out what was intended for the "World's Fair." Respecting the latter we were disappointed, and respectting the whole influence of the Fair, there was much that pleased us, and we saw much to condemn. We will briefly give our views on these points next week.

London Industrial Exhibition

At the Meeting for the Advancement of Science in New Haven, Mr. W. R. Johnson spoke on the scientific interest of the proposed Industrial Exhibition at London, in 1851. He said "it was no doubt known to them all that the British government have formed a committee for the purpose of carrying out the object of encouraging industry in all countries, at the head of which is the Royal Consort, Prince Albert. The British Minister brought the subject, before the government at Washington, and communications with the Governors of all the States were had relative to it. Local committees are formed in the different States to promote the contributions of this country to the Industrial Exhibition, and the attention of this association is earnestly called to it. One of the subdivisions is for raw material and produce. The vegetable and animal kingdom is worthy of being exhibited. Machinery is another class; and it seemed to him of the highest importance that the attention of this country should be called to the fact that 80,000 feet of space had been allotted to America for the exhibition. It is important that nothing should be sent abroad but what would do credit to the United States, and confer a benefit on the individuals forwarding their produce or manufacture."

The arrangements for the reception of fora hill to be surmounted, and at the same time ever, to maintain the character of the Scientiuse on the ground ; Mr. Brown is a very ingeeign contributions, we believe, are very liberal. it answers as a break in descending steep, fic American, as being "The Best Mechaninious and intelligent gentleman. The impro-Every facility is afforded for their convenience cal Faper in the World." We hope our ved Plow of Mr. Baker, of Troy, on page 348, grades. This is a good invention. and safe keeping. More space in the bazar