Scientific American.

Scientific American.

NEW YORK, SEPTEMBER 17, 1853.

Our New Volume.

self, he will not. There is not a manufacturer been published. in our land but should be a subscriber, because gent one, for it is the mechanics' paper, and the We believe that there is an intimate relationship tent pirates, and so on, whom they pursued as produce a large quantity of fibre and juice. only one in this country. No paper can be of | existing between a paper devoted to science fringers. Well, they paid to E. N. Chaffee the more advantage in a family, especially if there and inventions themselves. An intelligent and enormous sum of \$100. Oh what [india rubber] this substance will yet be cultivated in the Uniare sons in it who have an ingenious turn of honest paper, devoted to such objects, is surely consciences some men have! mind, or young mechanics learning any trade a powerful lever to lift them onward and up. In 1850, Edwin N. Chaffee applied for an exfluence which should be exerted by such a pa- in Science and the Mechanic Arts, during the it. The extension was opposed by H. H. portant of all. Our readers may expect a great- bes of years in her history. We make this granted, he published long articles, with lawknow that many of our countrymen have been Their minds have been directed thereby to invent improvements, which have been the means of advancing their fortunes, and elevating them in position. A paper of such importance to our more profitably expended.

Eight Years of Progress.

more than 20,000 miles of telegraph wire in our of the Court. This decision was made by Judge their crafty deluders.

Ocean Steamer belonging to our commercial maturned in H. H. Day's favor.

Nothing Like India Rubber.

There are at least 6,000,000 of our population in- This substance can be made soft, hard, elastic, praise for Mr. Day, unless he pays Chaffee well fluence for the extension of its circulation. We plication of it is to artificial teeth. An "india clear profits in 14 years—we have no language American" is circulated and read is directly be- of old, but india rubber teeth to some may ap- ing about in their gilded array, while the man It is now eight years since the first number of quish Day, and at last, under the championship generous men in our country who have pur-

country, binding its different parts together with Pitman, and it will no doubt be of great interest ' electric cords. Then there was not a single to our readers to know how the tables have been

whatever. We are very careful of the moral in- ward. Our country has made greater progress tension of his patent, and Mr. Ewbank granted per, because such an influence is the most im- past eight years, than during any similar num- Day with fierce pertinacity, and after it was er number of more beautiful engravings in this statement without any reservation, for we know yer's opinions attached, asserting that the Comvolume than have appeared in any of our former it cannot be refuted. The past affords us a missioner of Patents had granted the extension our last number. The two figures represent ones, and in every particular we shall endeavor solid foundation for the future progress of our illegally. This single act of Mr. Ewbank, of exto make it much superior to all its predecessors. country in mechanical improvements and distending the patent of this poor inventor, de-It affords us no small degree of pleasure to coveries in Science. It will be our object to serves great credit. After the extension, which, strong-armed forger of bolts and bars. The labor zealously for such a useful purpose, for in according to law, gives no favor to the former greatly benefitted in circumstances because they doing so we experience a peace of mind, in stri- owners, H. H. Day sagaciously found a way to behind the figures, on an elevation in the dishave been readers of the "Scientific American." | ving to benefit our fellow-man, our country, and become its sole proprietor. The terms are far tance. A steamboat and steamship, together more favorable, we believe, to Mr. Chaffee, and with a line of telegraph, flank a viaduct on the we hope he will realize (as he deserves) a hand- New York and Eric Railroad, along which the some fortune out of it for his old age. It is by iron horse is seen panting with his huge It was an old watchword with tanners and the extension of the patent that the position of train. Agricultural and various instruments are mechanics should receive their universal support, shoemakers, "There is nothing like Leather;" but the parties have become reversed, and H. H. Day represented, to show that industry and the arts and instead of 25,000 subscribers which we hope this venerable motto must give way to the retise have for this volume, we should have 100,000. ply, "There is nothing like India Rubber."— the Haywards.) We have not a single word of and glory. terested in inventions, science, chemistry, and stiff, thick and thin, into every shape, and cap for his invention, and if he does, for that we will the arts; out of this number is it too much to ex- be adapted to almost every purpose: it can give him credit. As for those who have made pect 100,00 subscribers for such a paper as the stand heat and cold—can be made into boots, themselves rich by Chaffee's invention—the Leslie; Wm. Filmer was the electrotyper of it, Scientific American? It surely is not. Our old caps, coats, canes, combs, and we do not know Company against whom the conditional injunc- and it was printed by E. J. Johnston. friends, we believe, will still use their good in- how many other things besides,—the last ap- tion has been granted having made \$250,000 of believe that every place where the "Scientific rubber conscience" was something well known to express our feeling. They have been flauntnefitted thereby; this consideration gives us pear to cap the climax of its adaptation. This who made them increase in riches has been for confidence and warmness of heart in asking our is not so, however: its application to judiciary fourteen years generously rewarded with the people to become subscribers, because we feel bamboozlement affords one of the most won- bounteous sum of \$100. Oh! shame! There that we offer them a paper of a real substantial derful and striking examples of the divisibility are men in our country who pretend to be the cit to subscribe. We commend to their attenand useful character, one which will do them and extension of matter on record. All our friends of inventors, and terribly savage upon good, and for which their money cannot be readers will remember the celebrated legal con- patent pirates, that are really the plunderers tests between C. Goodyear versus Horace H. of genius, the horse leeches of inventors.— Day; and how, from Massachusetts to Jersey, We defend and uphold the owners of patents in year after year, Goodyear endeavored to van- their rights, and we know that there are many the "Scientific American" was published. Du- of the great Webster, he accomplished his chased patent rights, and liberally rewarded the The twentieth anniversary of this extenring these years, few though they be, many im- purpose, and obtained an injunction. But, like inventors. We do not find fault with those who sively circulated newspaper was celebrated on portant improvements have been made, the pro. John Barleycorn, who was hacked, mashed, buy a patent right at a low price, when there Saturday evening, the 5th inst. The whole gress of Mechanic Art has been great, and the and finally drowned, up has sprung the India are doubts about its profits, but those who building was grandly illuminated, brilliant firenational advantages in connection with it have rubber case again, and it is no longer Goodyear buy such rights and make money by them, works were displayed, and a sumptuous banneither been few nor far between. In 1845 versus Day, but Day against his former pursuers. should not, in their prosperity, forget the inthere was not a good line of railroad in this The tables are completely turned, and on the ventors. The owners of Chaffee's patent have ees and invited guests. State, west of Syracuse—all were laid with the 6th inst. Day obtained an injunction against Dr. been a company of monopolists. They have The utmost cordiality of feeling prevailed, and flat rail, and were littlebetter than "man-traps.", Hartshorn and D. & N. Hayward, at Providence, done evil to our country by keeping up the pri- the whole affair reflected much credit upon Mr. Our railroads were then but in their infancy, in R.I., his former opponents, to prevent them maces of such goods for their own benefit, and to Beach, whose enterprizing management has number, quality, and management, in compari- nufacturing india rubber goods, unless the de- the hurt of all others. Such conduct we always placed the "Sun" among the most influential son with what they are now. There was not a | fendants should give bonds, with security, to be must condemn, because such men do great injury | and successful papers of the day, its circulation single line of Telegraph then through our State, approved by the Court, to account for all pro- to the rights of inventors in the community by 'is understood to be much greater than any othnor was there one, we believe, west of the Al- fits arising from the use of Chaffee's invention, raising prejudices against patents which are er daily paper in the world. Continued success

Inventions and Discoveries --- Gutta Percha.

It cannot be denied that the mechanical inventor has produced many revolutions in the rine, not one,—now we have nearly one hun- About eighteen years ago, all the india rub- world, and such revolutions as have not merely dred, and some of them the largest in the world, ber goods made in our country were manufac- changed the ways and workings of one or a few whichnobly maintain the honor of our countryat tured from india rubber dissolved by the spirits kingdoms, but have completely changed the home and abroad. It is indeed cheering to re- of turpentine into a pasty mass, which was af- ways of men-they have revolutionized the We commence volume 9, of the "Scientific flect that although the paddle) wheels of no Ame- terwards spread upon cotton fabrics and dried. world. At the same time, we are equally in-American," with a full dress of new and beau- rican steamship broke the waters of a single ocean This method of dissolving india rubber was ex- debted to chemistry, for her beneficial and usetiful type. The paper in this volume will be eight years ago, that now they cleave the wa- pensive, disagreeable, and the goods were of a ful discoveries, and perhaps this field, for imsuperior to any in our former volumes, and will ters of every ocean and every sea, from the Bay very inferior quality to those now made. In provement and progress, is much wider than make a very handsome book when bound up at of Manhattan to the shores of the German and 1836, Edwin N. Chaffee, a working mechanic of that of mechanism. The discovery of gutta perthe end of the year. Our matter will be, as Pacific Oceans. No American ocean steamship New Brunswick, N. J., made an invention which cha was only made a few years ago, and yet to heretofore, compact and clear, and we shall en- was then seen entering or leaving New York or completely revolutionized the whole business, what purpose is it not now applied. It is used for deavor to be more careful than ever in respect any Bay in the United States, either upon or and he secured a patent for it August 31st of a hundred different purposes, and no other subto its quality. Impartiality, with perfect inde- after a voyage: now, every week, from four to the same year. This discovery was nothing less stance is like it, and were it cheaper it pendence of power or party, will characterize six magnificent steamships enter and leave our than the rendering of India rubber soft and would, no doubt, be used to an hundred-fold our reviews of all subjects of our criticism. Our harbor, with the regularity of mail coaches. Du- pasty by mechanical manipulation in machinery greater extent than it now is. There are some correspondence embraces a wide area, and our ring the same period a new race of sailing ves- while hot, and spreading it upon the cloth in hopes of a cheap substitute being discovered, contributors are men on whose information and sels have also sprung into existence—we allude that state. This obviated the necessity of chem- and we trust that the experiments instituted will statements the utmost reliance can be placed.— to our large clipper ships which have gained ical solvents, and at the same time produced lead to such a favorable result. By recent news All the patent claims, as issued by the Patent such renown for speed and beauty. Since 1845 better goods. It has been stated that Chaffee's from Europe, we learn that Dr. R. Riddell, of Office, will be published every week, and all the | Gutta Percha has been discovered-Steam Ham- | invention reduced the expenses of manufactur- Madras, in making experiments on the Muddar notices of the Commissioner of Patents to those mers introduced—Cast Iron Houses and Towers ing india rubber goods to a third of what they plant of India, found that its milky juice, when interested in the extension of patents, will be constructed, and a thousand inventions beside— were before. Charles Goodyear, of Massachu- dried, became tough and hard like gutta percha, found in our columns. On this account no man, the most useful and interesting of which have setts, by some means, became the owner of Chaf- and precisely analogous to it. It is charred by interested in patents should be without the been illustrated and described in the eight Vo- | fee's patent, and sold rights to various persons sulphuric acid, converted into a yellow resinous "Scientific American," and if he is wise for him- lumes of the "Scientific American" which have for manufacturing goods, realizing thereby an substance by nitric acid, and but little, or not at enormous amount of money. During the four- all, acted on by muriatic or acetic acid or alco-It would take up too much space to name all teen years of the patent, from 1836 to 1850, the hol. Spirits of turpentine dissolves it into a he does not know but some invention may come of these,—we can only allude to them and say | proprietors of it, and the manufacturers of goods viscid glue, which, when taken between the up any week to revolutionize his whole business, it affords us no small amount of satisfaction that under it, pocketed millions of dollars for their thumb and finger, pressed together and then Those who are content to plod along in stolid such improvements have been so intimately re- own benefit; and how much do our readers separated, shows numberless minute threads, indifference to improvement are sure to fall be- lated to our own purpose of life,—that we have think they, in their swelling generosity, paid to all which results correspond with those of hind in this age of progress. Every mechanic been the advocate and herald of many of them Edwin N. Chaffee, the inventor? They could afgutta percha. The Muddar also produces an should read the "Scientific American;" un- while they were in their cradles, and that their ford to be generous, and many long-winded excellent fibre, useful in the place of hemp and less he does so he cannot be an intelli- progress has been in some measure like our own. speeches were made by their counsel about pa- flax. An acre of land cultivated with it would

We may be allowed to indulge a hope that ted States; at the same time we exhort our people to look out for such discoveries from the natural products of our own country.

Our Title Page.

Our readers, we know, will all be pleased with the beautiful and appropriate frontispieceon nus the beautiful, and Vulcan the swarthy but Patent Office of the United States is represented

The ornamental work was designed by Otto Heineigke, and the mechanical by Chas. Parsons. The engraving was executed by Frank

Our Prizes.

We would again direct attention to our prizes, they are more numerous and of more value than those offered last year. They are free as air, and worth contending for. Those who endeavor to obtain subscribers have many arguments to advance to those whom they may solition the article headed "Our New Volume."

Clubs can obtain the "Scientific American" at a very low price; it is really the cheapest mechanical paper in the world.

leghenies: at the present moment there are and to pay over the same according to the order granted intentionally to benefit inventors, not to the New York "Sun" and its enterprizing