

NEW YORK, NOVEMBER 18, 1848. Progress of Science.

When we look back upon the dark days of science-the time when the false philosophy physicians, attempting to explain the phenoof Greece reigned supreme in college and mena, nature, cause, prevention and treatment cloister-when truth was trampled beneath of Cholera ; but without any practical utility : the iron footsteps of spiritual tyranny and pride, and compare the state in which the civilized world was then, with its present state, we will be struck with astonishment by character-others to a volcaic origin, and so the contrast. Then-and it is not long since -the art of printing was unknown. Then both nobles and people of universal Europe, with but a few exceptions, could neither read nor write. " Darkness covered the land, and and mode of propagation of the malady are at gross darkness the people." And when Gallileo arose to unseal the book of philosophical truth, alas, he had at the fire and altar-to ting "Venesection"-others preferring as cusacrifice the princely price of his conscience to ignorance and bigotry. Then chemistry was confined to a few tricks of legerdemain, and the science of practical mechanics-in comparison to what it now is-was as the rude image of the South Sea Islander, to the finest group that ever came forth from the inspired Peruvian bark are recommended. The prechisel of Canova. Then the power of every monarch in Europe was a unit-now it is, in thists, are a globule or drop of camphorated the majority of cases, merely nominal. Then spirit, or a plate of bright copper next the of iron at about eleven. The same in respect attempts were made by the Burgher Guards a Henry, and a Louis had but to say, " rebellious subject thy head shall roll from the scaffold," and it was done. But now the scene has changed, the once serfs of Europe have become men, and kings have been made to experience the trite saying of Boswell's father to Dr. Johnson in reference to the fate of rics and to charlatans. On the other hand the Charles I., "he was taught that the neck of differences of opinion and the proposed rea king had a joint, as well as that of a subject."

"To what," it may be asked, " are we to during the last two hundred years ?" One thing we know, under the feudal system the Baron covered himself in his coat of mail and as lord supreme. What was it which broke that feudal power ? Allison says, "it was of the peasant, was pierced by the ball of the mixture and added astringents-no doubt a sertion of the great historian.

vancement made in the world since the art of mercurial preparations are employed, it is eviprinting was discovered, to the art of print- | dently the safest as it fulfils two indicationsing itself. An educated people may be led by to allay diarrhoa and restore the functions of reason, not driven by brute force, and as the the liver. art of printing has advanced and knowledge been disseminated among the masses, so in human mind.

## Mechanical Books.

We have now made such arrangements as will hereafter enable us to supply our friends and subscribers with any books of the Mechanical and Scientific kind which they may desire, and we trust they will not be backward in making their wants known. In another part of our paper will be found the commence. ment of a catalogue of works which we can furnish, with the prices also given. It has required much time, labor and expense to make up this catalogue because the works embraced in it are most of them rare and of a tions will be appreciated.

## Machinery for Sale.

There is a good chance now for the purchase of a splendid wood Planing Machine, a Portable Saw Mill and other machinery, at prices far below their cost. Any one who can command a triffing capital can easily double the amount by embracing this opportunity. See advertising page.

## Cholera.

public and professional minds are so wholly as shall be best fit to ameliorate the FILTHY engrossed with the anticipated ravages of so condition of the city. Let a competent Mediterrible a scourge to the human race, as Cholera-should it reach our shores-and especi- tion need the utmost vigilance ! Clean streets ally when multitudes of opinions are being -thorough ventillation-cleanliness of perexpressed in almost every possible form of son and temperance of diet, we feel assured publication, we feel it incumbent on us to will secure our citizens from the blasting intake a brief survey of the malady.

Various theoretical and hypothetical disquisitions have been entered into by eminent some ascribing its pestilential approach to a fungous origin-others its connection with impurity-some attributing it to its epidemic on. Differing as doctors generally do, it is, nevertheless, curious, however, to observe how often in the treatment of Cholera, where the views entertained of the nature, origin variance, that the plans of treatment recommended are nearly identical : some advocarative measures stimulating emetics-artificial led the suspension principle. The advantages heat, calomel with opium and the " saline treatment."

Again, hydropathy and homepathy have not been without their advocates : cold strong coffee and cold water with cold decoctions of ventitives to Cholera, according to homepaskin ! But doctors likewise differ among homepathists as well as allopathists.

There is no specific for Cholera, wherewith, on all occasions, to avert its fatal progress, any more than for another disease. Such pretensions may be safely left to empi- cles of individual horses, and allowing of a medies prove highly beneficial; for it provokes discussion and eliminates truth. It is ascribe the great changes which have been by a difference of opinion alone that we can made in the social condition of Christendom, arrive at just and correct conclusions. All experience attests that Cholera must be combatted according to the symptoms which present themselves. The results arrived at by with his iron cased lictors ruled his peasantry | the consideration of the greatest number of opinions is that the preliminary diarrhœa is best to be treated by astringents. The profesthe discovery of gunpowder." On the field sional man may choose, according to the age of Marston, the heart of the mail clad cava. and temperament of his patient and the sevelier-invincible before to the shaft or the spear rity of the symptoms between the simple chalk marksman, and the monarch made to feel the multiplicity of agents of the same class are might that slumbered in a peasant's arm "- advantageous. However it is one of the most War we deprecate in almost every sense of positive results of multiplied experience that the term, but there is much truth in the as- | the use of much opium retards, if it does not impede recovery in the after stages-and in We may justly attribute the great social ad- cases where conium and hyoscyamus with

Where the malady begins with vomiting or with purging combined the best treatment, proportion, have treedom and correct ideas of should the constitution admit it, would be justice been restored to their birthright in the emetics of salt and water or of mustard to give tonicity to the stomach, which may be followed up by the administration of quinine in combination with iron, and alkaline effervescing draughts. Should such treatment combined with mustard poultices fail to combat the severity of the attack ; then carbonate of ammonia-camphor with brandy and water and calomel and opium or calomel in large doses may be had recourse to. Strong stimulants internally and externally are likewise beneficial-such as naptha, assafætida, &c.-If calomel fail in its action, Croton oil must be tried.

Plans of treatment, as above enumerated, varied according to symptoms and the slight peculiar character. We trust that our exer- differences of formula, favored by individual practitioners, appear to meet at once the various opinions entertained as to the nature and origin of the malady and the slight differences

of treatment pursued by the profession. A few words as regards preventitive mea-

sures from the increments of Cholera The City of New York from its position being so led a Patent, and is sold as cheap as the cheapadjacent to the sea-surrounded by water and lest. They have a large manufactory at 71 built comparatively on high ground ought to Fulton st. New York.

escape from the ravages of Cholera. This At this momentous crisis, when both the can only be done by adopting such measures cal Committee be appointed. The Corporafluence of Cholera.

## 1ron Carriages.

The tendency of the last few years to substitute iron for wood has been shown in ships, ploughs, and other machines. It has even been attempted in houses ; but here, we believe, without that success, which is shown in extensive use or practice. " A gentleman of the north of Scotland," says Chambers Edinburg Journal, " is now experimenting, with good ground of hope, on the introduction of when crowds of them proceeded to destroy iron carriages. He proposes that the bodies of such vehicles should be formed entirely of battalions of the Burgher Guard, which had iron frame, the panels of plates of galvanized iron, and the axles of iron tubes filled with wood ; the wheels to have for spokes double rods pyramidally arranged, or on what is calproposed are-first, a lightness as about two to three ; second, a saving of cost in about the same proportion. Thus, a pony-carriage, which, of the usual materials, would weigh five hundred weight, is only about three when constructed of iron; an ounnibus, which, of the ordinary construction, would be twenty to twenty-four hundred weight, can be formed of external decorations and internal comfort. A carriage of this kind effects an important saving in the motive power. If successful as an invention, it must be of no small importance to humanity, both in sparing the musgreatershare of the fruits of the earth going to the use of human beings. For use in tropical countries, there is a farther advantage in and exhort both people and men of capital in the non-liability to cracking and shrinking, our own land. The causes of revolt among and the unsuitableness of an iron frame for becoming a nest of noxious insects. Apart from the mere substitution of one material for another, which is the leading feature of the invention, much is claimed for it on the ground of the superior springs employed in these carriages. They are spiral, and vertically arranged, working in a case, with an apparatus which precludes their falling from their perpendicular."

Suspension carriage wheels have been long in use in America, and within a short period valuable improvement has been made on а hollow carriage axles and the manner in which the wheels are connected to the same, by W. L. Lewis of Clarendon, Orleans County, N. Y. and for which he has made application for letters patent.—ED.

## Inventors and Fairs.

Many inventors who had articles exhibited at the Fair of the American Institute, that were original and new, have felt disappointed to see prizes awarded for old and well known articles, while the new articles were passed over in silence. New inventions certainly present prior claims to all others and we know that no attention has been paid to new inventions, any more than old ones. There certainly should be a distinction. The Franklin Institute has been somewhat blamed also. but we cannot speak confidently on this point. On the catalogue of prizes, No. 1 class should always be for new inventions.

The Robberyat Washington--\$1500 Reward.

An advertisement will be found in another column, from the Commissioner of Patents. offering a reward of fifteen hundred dollars for the recovery of the property stolen, and the have only to enclose the amount in a letter di detection of the robbers who broke into the United States Patent Office, at Washington, on MUNN & COMPANY, United States Patent Office, at Washington, on Wednesday night last week.

## Isham's Patent Sand Paper.

We believe that the Sand Paper made by R, H. & J. G. Isham of this city is found to be much superior to any in use. It is made in a peculiar manner, for which they have obtain-

War against Labor Saving Machinery. To shake off the yoke of the oppressor, we behold the Germans of Europe grasping the musket and bayonet, and shouting aloud for Liberty and Faderland.

In the midst of sanguinary struggles-struggles against home oppression, very different scenes are enacted, in comparison with battling against a foreign foe, and like the bigotry which the Christians displayed in destroying pagan temples, and the Reformers in destroying the ancient cathedrals, so are an excited people always apt to vent their vengeance blindly. By late accounts from Europe, we learn that the populace in Berlin-enlightened and educated Berlin, have displayed the most remarkable hostility against a machine having been employed to do some work there and a number of laborers having been dismissed who were previously engaged at workthe machine and demand employment. Two been ordered out, could not restore order, but were compelled to use firearms on their being attacked by the laborers. Towards afternoon the whole city was thrown into alarm, and the affray had become a regular fight between the laborers and the Burgher Guards. The latter were using their arms freely, and when they had finally succeeded in suppressing the row, five laborers had been killed, and many wounded. In the evening the fighting between the workmen and the Burgher Guards recommenced. Barricades had been constructed in the streets near the Copnickerfield, and to take them by storm, which at last they accomplished, but not without a fierce and sanguinary struggle.

We point to this event as a dark spot in the history of modern improvements, and as we are the advocate of improvements in the useful arts, and of honest industry also, we instance this circumstance as a beacon to warn the intelligent people of Berlin by the introduction of new labor saving machinery must have been great indeed. To the credit of America be it spoken, our people have encouraged, never destroyed machinery tolessen labor, but then our people know not (may they never know it) the depth of that misery in the European working classes of-

" Begging a brother of the earth,

# To give them leave to toil."

The Law of Libel. A very important decision for printers has been made by the tribunal at Senlis, France. A certain Mr. Zellanger wishing to have a letter, written by him to the Minister of War, put into print, was refused by sundry printers in Paris, Rouen and Senlis, on the ground that the letter contained some strong language which might compromise them ; Mr. Zellanger appealed to the court at Senlis, which decided that if the author chooses to assume the responsibility expressly, the printers can in nowise become answerable for the expressions of the former.

## Counting Room Almanac.

Messrs. Oliver & Brother have favored us with a beautiful Counting Room Almanac for 1849, and request us to inform our subscribers that they are for gratuitous circulation in this city, Brooklyn and Jersey City, and may be had free of expense by applying at their office corner of Nassau and Fulton sts.

The article on the Telegraph is deferred to next week—when we shall publish a cut of the first Alphabetic Printing Telegraph.

### THE SCIENTIFIC AMERICAN.

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