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Scientific Museum.

Mortality of Cities.

Although there is stated to be an immense amount of pauperism in London, and consequently much suffering, it is a positive fact that the number of deaths in it annually is less in proportion to its inhabitants than that of the larger cities in our country. The following table is a list of the population, and mortality of London and four American cities for one guarter:-

MORTALITY OF	JULY,	AUGUST, AND	SE	PTEMBER
Philadelphia	2,955	400,000	1	to 135½
New York,	7,529	550,000	1	to 73
Baltimore	1,610	180,000	1	to 112
Boston,	1,391	150,000	1	to 108
London,	12,918	2,200,000	1	to 169

The mortality in New York is truly frightful for the above three months, but then they are the most sickly months in the whole year .-And beside this, there are other causes which contribute to this great excess of mortality over other cities. This is the port where the great mass of emigrants from all parts of the world land. Thousands of these poor people are weak and emaciated when they come here and arriving in a different climate from that of their native countries, they are liable to be stricken down suddenly by exposure to the sun, and are more subject to the attacks of prevailing diseases than the natives of this city. When so many were sun struck in this city last summer, very few Americans lost their lives-not one in fifty we believe-while no less than seven-tenths of the number were natives of Ireland. In proportion to the number of native and foreign inhabitants of New York, we are confident that there are ten deaths among the latter to one of the former. There is no city on our continent more healthy as it respects climate and local diseases. It might, however, be rendered much healthier by the better enforcement of one single sanitory measure, namely, keeping the streets clean and free from mud and dust,

Irrigation by Artesian Wells.

Between the rivers Neuces and Rio Grande, in Texas, there is a large extent of country, than which there is no finer grazing lands in the world, excepting at times when severe drouths visit it. During such periods-and they are frequent-the graziers have to drive their flocks to great distances, in search of wa ter. In that quarter also, the cultivation of the soil cannot be accomplished, owing to such drouths. It is proposed to water some of these plains by artesian wells, one of which it is stated will be sufficient to supply 500 acres with a sufficiency of pure water for any number of animals, on that extent of land. We have seen it stated in some of our southern cotemporary journals, that a wealthy planter from San Antonia is now in Alabama securing implements and workmen for the purpose of sinking such

Mr. Wilkins is a telegraph engineer of Hemp-It is well known that Liszt, considered by er, or tracer, and thereby impress, mark, or of NEW MECHANICAL INVENTIONS, nearly all of many the greatest pianist in the world, has with stead, and has secured a patent for his extraor- otherwise render visible, in a continuous line the best inventions which are patented at Washington being illustrated in the Scientific American. It also drawn himself from public life for a year or two dinary invention, which will be made available on paper, characters representing letters, words, contains a WERELY LIST OF AMERICAN PATENTS ;---notices of the progress of all MECHANICAL AND SCI-ENTIFIC IMPROVEMENTS ; practical directions on the past. "Spiridion," the entertaining Paris corto the public by the Universal Electric Teleand figures on the recording surface, which is respondent of the "Boston Atlas," says his regraph Company. The improvements for which kept constantly moving by means of clocktirement was caused by dissatisfaction with the CONSTRUCTION, MANAGEMENT, and USE of all kinds of MACHINERY, TOOLS, &c. &c. Mr. Wilkins's electric telegraph will be distinwork, or other suitable machinery, while the piano, it would no longer accomplish his desires. guished are intended to meet all existing de- characters are marked, or otherwise produced It is printed with new type on beautiful paper, and be He has accordingly devoted all his energies to fects. It will form one of its very peculiar and by the electric current, in a fixed manner, caing adapted to binding, the subscriber is possessed, at the the production of a new instrument and th pable of being read upon it. By a contrivan striking characteristics, that instead of the mesd of the wear of LARGE VOLUME of 416 PAG illustrated with upwards of 500 MECHANICAL ENGRAsage being, as at present, expounded often by of surpassing ingenuity the transmission of best piano makers of Germany and Russia were VINGS. employed in the task. The work is said to be guess, liable to be misunderstood or mistaken the message will be simultaneous to any num-The Scientific American is the Repertory of Patent Inaccomplished, and "Spiridion" writes :--from variations of the index, or from many ber of radiating stations without the aid of inventions: avolume, each complete in itself, forms an Enexclonedia of the useful and entertaining. The Patent "M. Alexandre wrote to him recently, inother causes, the message will be written by termediate operators, only one operator being Olaimsalone are worth ten times the subscription price forming him that he had succeeded in making the telegraph instrument itself. By means of required at each telegraph. This branch of imtoevery inventor. the desired instrument. M. Listz flew hither. his singularly ingenious apparatus, the message provement is effected by a delicate piece of TERMS! TERMS!! TERMS!!! One Copy, for One Year "Six Months M. Alexandre's invention is not merely a piano, leaves the telegraph written on paper by the machinery, the "Automaton Repeater," by \$8 \$1 there are three finger boards susperposed one instrument in clear and distinct characters, demeans of which any number of towns, or places Five copies, for Six Months 84 on the other, and which give to the player livered in a continuous line and unvarying powithin the circle of construction, may be com-Ten Copies, for Six Months \$15 Ten Copies, for Twelve Months power of combining all the effects of a full orsition. It is not even dependent, as was formunicated with at the same moment by one and Fifteen Copies for Twelve Months \$22 chestra; two of the finger boards are pianos, ly proposed, on the chemical action of the the same electric touch." Mr. Wilkins's plan Twenty Copies for Twelve Months \$28 the other calls into existence flutes, clarionets, electric fluid on certain sensitive colors, but is also remarkable for the extreme simplicity Southern and Western Money taken at par for Subcriptions, or Post Office Stamps taken at their par value. the machine will enable parties to perpetuate of the telegraph, for one wire will be sufficient, hautboys, violins, violincellos, human voices-Letters should be directed (post-paid) to an accurate record of the message, the value of and in order to prevent the uncertainties everything, an organ, wind instruments, cord MUNN & CO. instruments. The piano may now join the which, in all intercourse, as well in affairs of which have impeded the development of the 128 Fulton street, New York,

Scientific American.

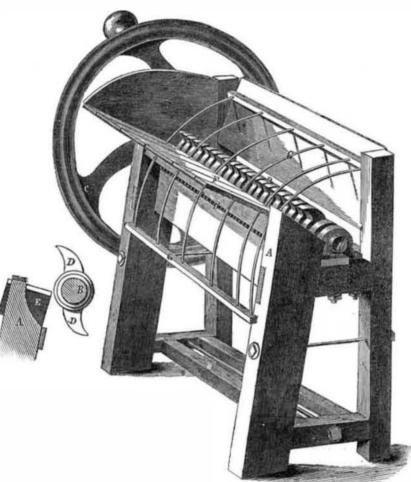
stage coach, the signal telegraph, and the other discarded wonders of our ancestors. Its day is ending.'

[The above has been extensively copied, but it is a piece of nonsense from beginning to end. Pianos were built twenty years ago combining the flute, clarionet, and some other instruments, but such a combined instrument is not a piano any more than a banjo is a violin. The piano as it is will never go the way of the signal telegraph any more than the violin. Such well to astonish the gawkies.

Guano. The British Government has received official despatches from the Admiral commanding in the Pacific relative to the quantity of guano remaining upon the Chincha Islands. It is estimated that the available supply amounts to eight million six hundred thousand tons; but the Admiral imagines that the islands will be England in eight or nine years.

a hotch potch of an instrument may do very incite our farmers to look for new fertilizers at home.

STRAW AND VEGETABLE CUTTER.



ter, patented Dec. 21st, 1852, by W. Gale, of ing hooks. Louisville, Ky., now residing in Troy, N. Y. operation is efficient.

straw is thrown, the grate-fall, G, being eleva- tained by addressing the inventor as above.

state as in all legal, monetary, and commercial NAL of the Great Discovery-A Universal Telegraph. wells in that part of the country of Texas which ARTS, SCIENCES, AND MECHANICS, The "Mining Journal" minutely describes the transactions, is almost incalculable. The ingewe have named; we hope the project will be having for its object the advancement of the marvellous improvements effected by Mr. Wil- nuity is perfectly marvellous, which arranges eminently successful. INTERESTS OF MECHANICS, MANUFACTURERS kins in the electric telegraph, by which the the telegraphic apparatus to be worked by the AND INVENTORS. A New Piano. system bids fair to be thoroughly revolutionized. electric current, so as to give motion to a mark-Each Number is illustrated with from FIVE TO TEN ORIGINAL ENGRAVINGS

The engraving herewith presented is a per- ted until the straw is thrown in, when it comspective view of a Straw and Vegetable Cut- presses it and carries it downward to the feed

The knives are so constructed that when The machine is of a novel construction and its broken, the ends may be readily changed or new ones put in, in their stead, and they may A is the frame of the machine; B is the also be ground with facility. We have witfeeding shaft, turned by the balance crank, C, nessed the operation of this machine and think having upon it the spurs, D, which grasp the favorably of it. In simplicity of construction, straw or vegetables, and press it against the and that great desideratum of agricultural imstationary knives, E (see the small cut at the plements, easiness of repair, we know of none left). F is the feeding table, upon which the superior. Any further information can be ob-

telegraphic system, he has devised a superior plan of insulators. It is calculated to insure the most perfect and unerring accuracy by the total absence of quivering points and needles, and by abstaining from the use of chemical preparations, always liable to mislead and very often to fail.- New York Tribune.

We copy the above from the "Tribune," exhausted of saleable guano worth freighting to but we have seen the same article in a number of our daily papers. This surprises us not a This is very significant information, it should little, as those papers have been in the habit for years past of receiving messages every day from all parts of our country, by just such a telegraph as that described above. It is nothing more nor less than the Morse Telegraph as it is, and of which there are 27,000 miles of wires erected in the United States. It is indeed a strange thing to us that the "London Mining Journal," which is partly devoted to the propagation of new discoveries, should be so ignorant of this American invention, but at the same time we must say that it appears more than strange to us, that such ignorance should be displayed in any paper in our country-it betrays great stupidity. It affords our people some evidence, however, of the length of time required, and the long round-about distance (from Washington to London and back again) which truth and scientific knowledge have to travel before it can enter the eyes or the ears of men devoted merely to light literature and politics -they cannot be trusted, in giving opinions about new claimed inventions.

Who the Mr. Wilkins mentioned above is, as having made the great discovery, we do not know, but we can tell him that if he reads Prof. Morse's re-issued patent, he will find he has been anticipated long ago, and that he is sailing under the false colors of being the inventor of that which belongs to an American.

Hints to Stock Raisers.

Mix occasionally one part of salt with four or five of wood ashes, and give it to your stock of all kinds during summer and winter. Green and fermentable food produces flatulency, and this mixture affords a remedy. It is said that if horses are liberally supplied with salt and clean wood ashes, they will neither be troubled with botts nor cholic.—[Connecticut Valley Farmer



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Is commenced a bout the 20th September, each year, and is the BEST PAPER for Mechanics and Inventors published in the world. Each!Volume contains 416 pages of most valuable read

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