#### MECHANICAL EXHIBITION AT BOSTON.

work accomplished by each, the modus operandi, to be read- men. Writing with this machine is done by means of keys, ily ascertained and understood. Among these machines are several that have been already fully described in this journal, as the Buckeye Steam Engine, the Brown Caloric Engine, Worthington's Duplex Engine Pumps, Brainerd's Milling depressing any key, the corresponding letter is printed on Machines, the Allen Steam Engine Governor, the Chase the paper. The "action" is fully as rapid and easy as that Steam Engine Governor, etc.; but there are others in opera- of the piano. The alphabet, numerals, and all necessary tion having improvements that are ingenious and valuable. characters for punctuation, italicizing, and reference, are We refer more particularly to Kidder's Printing Presses, Dooley's Paper Cutter, the Morse Diamond Cutting Machine, Leather Splitting Machine, L. J. Wing's Improved Rotary Engine, Wiswall's Torrent Rotary Pumps, and many woodworking machines.

gas valves by the Chapman Valve Co., of Boston. The Chap- is from twelve to twenty-four words per minute. The averman valves have come prominently before the public during age speed of the type writer is from forty to seventy-five the past five years. They possess features which are of words per minute, that is, where a single copy only is despecial interest to all persons using valves, and particularly sired, but as any number of copies from two to twenty can to those who have found difficulty in procuring a valve that be made at the same time, it follows that with this type would remain tight under the various conditions to which writer, and a good operator to use it, from three to twenty valves are subjected. This company claim to produce a hours' work can be done in one hour. Three different kinds lies and gone where work will bring an honest return. valve that will remain tight permanently when used for hot of type can be used in the machine. or cold water, gas or steam, and substantiate their claim by In the evening the main hall of the building is lighted up giving a guarantee with every valve. These valves are made <sup>1</sup> in a brilliant manner by the Brush and the Wallace-Farmer with a hollow plug, and have a seat of Babbitt or soft metal electric lights. Of the former there are two No. 5 current instead of hard metal. The seat is cast into dovetail recesses machines, each operating four lamps, of 3,000 candle power in the body of the valve around the inlet and outlet openings each, or equal to 200 five-foot gas burners. The machines after the plug is placed in position, and forms a perfect seat are operated by a steam engine, and absorb while in action without grinding. The process of forming the seat is very about fourteen horse power. The lamps in use are adapted ingenious, and originated with the manufacturers. These to burn about thirteen inches of carbon without adjustvalves are, we are informed, proved at 300 pounds pressure ment, and the carbons last six to seven hours. At the end per square inch. In the case of steam valves, with which of this time new carbons may be placed in the lamp in a few 1 there is so much trouble, this company guarantee that every seconds without serious interruption of the light. The light valve obtained from them shall remain tight for the space of produced is a pure white light, like that of the sun. It is one year under 150 pounds steam pressure. The workman- very steady, and delicate shades of colors may be detected ship and finish of these valves is very superior. The hydrant as well by its use as by sunlight. Another peculiarity of by the same company is known as a gate hydrant, and the electric light is that it produces very little heat, and gives claim made for the valves extends with equal force to it.

The Boston Blower Co. exhibit a "Lightning Grinder," which was patented November 24, 1874, and improved 1878. This machine is for the purpose of grinding mower and reaper knives. It will grind a uniform bevel from the points to the very base of the sections. It will grind out notches and uneven places. It can be operated by one person. By taking off the knife holder, which is held by two screws, attaching a standard and platform rest, and putting on a larger wheel, the machine becomes an emery wheel grinder, which will sharpen, point or polish plows, cultivator teeth, shovels. mill picks, axes, and all tools used on a farm or in a shop. markets of Brazil, a correspondent of the Evening Post, It is excellent as a cross-cut saw gummer. The emery wheels make 2,000 revolutions per minute. The same com- heeding by those who intend to send goods thither. Folpany exhibit, on the interchangeable plan, fan blowers, some lowing the list of articles forming the cargo of the pioneer of which are in operation, for cupola furnaces and forges, steamer, the writer notes that drugs are not likely to gain a either pleasant or salutary to sit about while under the senpuddling and heating furnaces, steam boilers, etc., and also large sale. There is a decided preference for French goods, some exhaust fans for removing shavings from wood work- while the experience of the English in supplying the East ing machinery and dust from sand and emery wheels. The Indies and other tropical markets gives them a very decided exhaust fans can also be used for ventilation, refrigerating, advantage over new rivals. Books will meet with only a less than personal satisfaction, is involved in this matter. etc.

chinery, consisting of Flather's Hollow Spindle Engine subject to heavy duties, and can scarcely compete success-Lathe, with turret head in place of tail stock and other tools. | fully. For cut nails there is no market, the French wire comfort. It is said by some to be heroic and hardy to en-Their "Concord Buzz Planer" is a very meritorious machine. The shape of the frame is such that any irregularity superior penetrating power. Cotton drills should meet with the hero or heroine is simply indolent, and afraid of the in the floor will not cause a twist or spring, thereby cramp-ing the tables or throwing them out of line. The tables are it is difficult to compete in cheapness with articles of Engboth movable and quickly adjusted by the use of one hand- lish and Belgian make. There is, too, a prejudice against wheel at each end of the machine; and while being raised American machinery, owing to its lightness and seeming or lowered the edge of the table will keep at equal distance delicacy, which will have to be overcome. Our wood-workfrom the cutting edge of the cylinder, thus giving the ing machines are often found to be too light for the hard, smallest possible amount of opening from the cutters when tough woods of Brazil. American boots should succeed. gauged for work. Their patent adjustable rest or guide is The market, however, is not so large as the population of also attached to the machine, and by simply turning one the country would suggest, the great mass of laborers, Por- the laboratory the manipulations of the operator give off screw it can be set for any bevel, or if desired it can easily tuguese, and negroes going barefoot or wearing woodenbe removed from the tables. On the front edge of the back, soled shoes. We are inclined to think that this custom will constantly going on affect the wider circle of that grand latable there is a rabbeting groove by the use of which, in not hold out long against cheap and durable shoes of leather. boratory, the world which we inhabit. The housekeeper connection with the rest, rabbeting can be done any depth Our printing presses are found to be so superior to those of must guard against these influences. The sunlight must be from 1-16th to  $\frac{1}{2}$  inch, and any width desired.

A new device which remedies a great railroad nuisance is | Small printing offices are numerous, and although they are keep out, except so far as to provide ventilation. Philosothe noiseless locomotive safety valve invented by Mr. Henry able to command only small and cheap presses, it is to these phers tell us of the "storing of heat." A simple test and G. Ashton, of the Ashton Valve Company, of Boston. The rather than to the few large establishments that our press proof of this theory is in the warming of the house by t object of the invention is to overcome the nuisance of the makers and type founders should pay special attention. The cheerful sun, and the storing of the heat by preventing its sudden bursting out of steam when a locomotive is moving market for sewing machines is good, but it will be up-hill escape as the decline of day weakens the warming rays. or standing still. The high pressure of steam in a locomo- work to conquer the prejudice of the people for a long-es- Another seasonable hint is in order, in which the fire brigtive boiler finds vent at the inconceivable velocity of 1,600 feet ' tablished American machine of Glasgow make. ade and the insurance companies are also interested. The per second through the safety valve. The steam strikes the American kitchen ware and cutlery are slowly winning heating apparatus of every building, whether used for air with this force, and the problem has been how to avoid favor. In miscellaneous hardware the trade is yet small, | dwelling or for business purposes, should be thoroughly exa noise proportionate to that force. This noiseless safety owing to the cheapness of European products and the popamined and put in complete repair. Metal corrodes during valve operates so that no steam is either seen or heard, by ular prejudice against the lightness of American articles. the summer, and flues become choked. Hence, from the simply conducting the escaping steam through a pipe into Hats, if cheap enough, will command a large sale. In the neglect of precaution, cold weather is ushered in by fire the tender of the locomotive, where it is used to heat the cities the tall, uncomfortable silk hat is almost universally alarms, and the report of casualties ranges from slight up feed water, which is then pumped warm, instead of cold, worn. American rifles and pistols are too good for the mar- to serious conflagrations. Now is the time for the houseinto the boiler. Thus all the steam that was blown into the ket. The Brazilian is very little addicted to the use of fire-keeper's tour of inspection over the premises (with a glance air (with a noise) and wasted is utilized silently, and the pub- arms, and is satisfied with the cheap trash supplied by Bel- at the coal-bin, if that is not already filled). All these preplic now has, or may have, in respect to a safety valve, a gium. The market for printing paper is not promising, the arations may be conducted leisurely and comfortably at noiseless locomotive. cheap English and Belgian papers being generally used. this time, with no interruption from cold hands. And if There is a series of inventions connected with these Our printer's ink is meeting with ready sale and gives good mechanics are needed, they will come for the calling, and be noiseless safety valves covered by eight patents owned by satisfaction. American type stands high, notwithstanding glad of the opportunity. A month hence, when the cry is the Ashton Valve Company, who are applying their valves its greater cost, owing to its toughness and finish. Ameri- universal, you might as well call "spirits from the vasty , can axes are unexcelled, and are selling in every part of Bra- deep" as invoke the stove dealer and the plumber.

which are compactly arranged in four rows of eleven each. and may be operated by any tinger of either hand. On each key is plainly printed the letter or characterit represents. By between lines. The improvements in this little useful machine are numerous, and its construction is different from all other machines of this class. The advantages claimed for it are beautiful legibility, rapidity of action, and ease of There is an unusually fine exhibit of steam, water, and operation. The average speed of a pen in ordinary writing

> off an inappreciable amount of non-respirable gases. An equal amount of gaslight produces nearly two hundred times as much heat and about the same proportion of nonrespirable gases. The healthfulness of electric light is therefore a great point in its favor, as compared with any other artificial light, and there is no danger of fire or explosion in its use. The steadiness of the light produced by the Brush apparatus is noticeable.

#### AMERICAN GOODS IN BRAZIL.

In a long and somewhat rambling commentary on the writing from Rio de Janeiro, mentions some things worth nails being preferred, though more costly, owing to their

Among the smaller machines at the Exhibition is an in-zil, in spite of the circumstance that the Germans are flood-One of the good features observable at this exposition of genious type writer exhibited by Fairbanks, Brown & Co., ing the market with an inferior article bearing American the industrial arts is that nearly all the machines in the ma- of New York and Boston. It is intended for use by report-makers' trade marks. American clocks sell well. Amerchinery department are in motion. This allows the specific ers, editors, authors, copyists, merchants, and professional ican furniture can be found throughout the greater part of South America. Complaints of its frailty, however, are too frequent. Lard and flour are staple articles, and are sold largely. American butter lacks keeping qualities, and is therefore unsalable.

## Some Benefits of the Hard Times,

Commissioner Williamson, of the General Land Office, has prepared a comparative statement of the disposal of made by it. It is easily adjustable to any desired spacing public lands during the fiscal years ending June 30, 1877, and June 30, 1878, which shows a general movement Westward during the past year from regions of the East. In nearly all the prominent Eastern cities societies of emigration have been engaged in forming colonies from among mechanics and unemployed laborers with a view of settling them by companies or colonies on the rich lands of the West, and thus relieving the cities of their superfluous and idle population. As Commissioner Williamson says, all this is certainly the good that has come from the evil of hard times. The mechanics, instead of sitting down to groan over the dullness of business prospects, have packed up their fami-

> Taking Dakota, Kansas, Minnesota and Nebraska, the comparative statement of the disposal of lands during the above periods shows how vastly the emigration has increased. Lands are disposed of by cash purchase, by homestead settlement, for timber culture, and by warrant and scrip location; four different methods, and the records of each are preserved separately in archives of the General Land Office at Washington. For Dakota the figures are:

0		0		
	1877.		1878.	
Cash	. 20,336 <sup>.</sup> 62	acres.	74,940·93	acres.
Homestead	.123,869.82	acres.	804,298 66	acres.
Timber culture	68,188.92	acres.	570,224.34	acres.
Warrant and scrip loca	•			
tion	. 5,983.04	acres.	12,346 <sup>.</sup> 80	acres.

The table shows an increase of 1,243,423.53 acres in one fiscal year. The same figuring for Kansas shows an increase of 1,356,478 68 acres; for Minnesota, 761,356 10 acres; and for Nebraska, 363,268.98 acres; making a grand total in these four localities alone of 3,724,572.29 acres. Reports show that this business is going on, and that the settlers are doing well. The New York Tribune says that the colonies that went to Kansas and Dakota from New York, through the instrumentality of John Kelly, about 4,000 strong, and those that went from Baltimore and Philadelphia, Indianapolis and Boston, are prospering beyond their expectations.

## Autumn Suggestions.

Very decided changes in temperature come about at this season, and often without warning. Fresh, cool days are followed by others warm and moist. The *Philadelphia Led*ger tells its readers that it is unhealthy to shiver, and not sation of even slight cold. Housekeepers should take care that some apartment in their dwellings is sufficiently warmed by stove or range or furnace to be comfortable. Health, no limited demand. For rice machinery the prospect is poor, The slight ailments and occasional serious diseases which Hill, Clarke & Co., of Boston, have a fine exhibit of ma- since the cultivation of rice is dying out. Mule shoes are mark the change of season arise usually from inattention to the warnings which the body gives in its protests to disdure the preliminary touches of winter. But it may be that labor or care involved by going into winter quarters.

> The trees retain their foliage in luxuriant green, and all vegetation is very rank. This late verdure is beautiful, but, like many beautiful things, treacherous. Trees may have malaria lurking about them, more especially when the heat of noon is in wide contrast to the cold of midnight. Nature's chemical processes of the kind that are injurious to the human constitution are accelerated in autumn. As in gases, so in nature the combinations and changes which are the French, that they are sure to compete successfully. admitted to dwellings-the midnight it is well enough to

quite extensively on locomotives of different railroads.

# Curiosities of the American Exporting Trade.

and an omission to make concessions to the local prejudices pipe and smoke it? of outside barbarians.

A good time will probably come when these will all be removed, and then adieu to Communism, pauperism, half- factured tobacco, and more cigars and cigarettes, were re- mechanical toys, and the American manufacturers of the time, over-production, and all the other real or imaginary evils moved directly from the manufactories for exportation than clock mechanism have met all overtures for the purchase of of the day. Kearney will become a bloated bondholder, during any previous year of which an account has been Schwab will own a brewery and supply beer to the Bavari kept by the Internal Revenue Office. The excess in tobacco ans, Chinese cheap labor will be welcomed by its whilom over the year preceding was nearly 3,000,000 pounds. Of opponents turned manufacturers, greenbacks will advance the total amount, England takes over 1,000,000 pounds; can lager beer to Count Bismarck, and in due time received a to a premium, gold will be a nuisance, subsidies to steam- Australia comes next, Germany next, and the United States letter from him through the German Consul thanking them. ship lines will be regarded with contempt, and many other of Colombia next. There is scarcely any spot in the civilequally incredible things from the present point of view ized world to which we do not export our manufactured will come to pass.

Meantime, Yankee pluck, even with all the odds above mentioned against it, is making a gallant race, and is fast this country have recently found a profitable market at from closing upon its antagonists. This is especially true of the two to five cents per pound. Formerly these clippings were past few years-since 1875.

at the rate of £6,000,000 in two years. Our exports to-day are song. Now agents have been sent out through Canada to prairie hens, grouse, woodcock, wild turkeys, canvas-back more than double those of 1860, in which year there was a buy up all they can find, with a view to shipping it to ducks, and other American game that he could procure. The very heavy export trade, the one article of cotton alone Europe. amounting to over \$190,000 000, more than twice the cotton export of 1855. In the fiscal year ending June 30, 1878, the the past year, been sold in England, where they are eagerly increase over 1877 was nearly \$65,000 000, or about 11 per purchased as cheaper and more suited to the popular taste cent., and this notwithstanding the greatly lessened demand than any cigars heretofore imported into that country. On for war material consequent upon the cessation of hostili- one day in March last a single shipment was made aggregatties abroad.

our progress profinises to equal that of the past three years profit of \$120,000. One firm in this city has even started a that it finds a large demand for both specialties in England, is to claim too little. The least we may look for will be an factory exclusively for the making of cigars for export to France, West Indies, and South America. expansion on the compound interest plan.

Our dry goods are superior to those of England, and are preferred wherever they are entered into direct competition growth unparalleled by any farm product, except, perhaps, export trade that must be both novel and curious to the with them. Not to put too fine a point upon it, English cotton. As recently as forty years ago the exports amounted cotton goods are composed of one part cotton and three to but 411,338 pounds. Last year they reached the enorparts clay or other filling, while those manufactured here mous aggregate of 107,364,666 pounds. If this were loaded are without make-weight of any kind. American iron is on drays, each carrying one ton, and occupying eight yards, | a large sale among the subjects of the effete monarchies. naturally of three or four times the tenacity of English iron, the line would extend 244 miles, or a greater distance than and so on to the end of the list.

on the face of the globe can begin to compete with us. | movement to the wharves for shipment would exceed 172 year. European mechanics bear no comparison in skill or intelligence with ours

work that a German or an Englishman will in the same sure and sufficient agricultural knowledge. Nine-tenths of after that? time, and he will do it much better. Wages and the price this vast amount finds a market in Great Britain, which forof living have become so reduced on this side of the ocean merly stood pre-eminent in the reputation of her dairy prothat in many instances they are lower than in Europe. We ducts. Our dairymen have succeeded in imitating the size, have the aid of an unlimited variety of labor-saving machin- general appearance, and even the flavor of the English proery, a great deal of which is not known abroad, and nearly duction so closely, that being able to sell at a much lower all in use there has been imported from this country.

A German gentleman informed the writer that, wishing recently to establish a branch house in his native city, Berlin, portion of the credit for this triumph, over seventy per he employed the carpenter who has the patronage of the cent of the cheese manufactured in this country being the ton, has been used in the Mediterranean basin. court, and is therefore supposed to be of exceptional skill, product of her factories. In Germany a demand for Amerito put up for him a wood and glass partition similar to those can cheese has also sprung up, but it has been too recent to Indies is patent water-closets. Another is American conused in counting-houses in this country. The job occupied permit of the presentation of the results accomplished. six weeks, whereas here six days would have been sufficient. All the mouldings had to be made by hand with clumsy, old-here. Every child knows that this country has been for fashioned tools, and the workmen seemed to be mere some time the granary of the world. Nor will the ordinary plish as little in a given time as possible.

went into a saddler's shop-trunk stores are unknown therenot be made in less than a day. In New York, supposing there were none in stock, a special machine would have rarity before. turned it out in two minutes. Incidents might be multiplied indefinitely to illustrate this branch of the subject.

Every American who has ever traveled abroad can furnish canned goods, and a thousand and one other perishable artiseveral from his personal experience. Should proof be cles of food, the export trade of which is increasing enorneeded that all that has been said is true, it may be found in mously from year to year. If this thing keeps on it will not large order for shipment o Turkey in June. A Troy bellabundance in the columns of the English newspapers. These be long before America is the butcher's shop and grocery are filled with complaints of American competition and con-store as well as the granary and manufactory of the sequent loss of home trade. One paper-the British Mailtells of a house in Birmingham which is manufacturing uitmeg-graters etc." and placing them on the market as at work upon an order for padlocks upon a favorite United American cotton goods in Manchester, and American cutlery States pattern," and American manufacturers are warned to and hardware in Birmingham. immediately register their trade-marks in Great Britain The business of making and canning plum pudding for under the new treaty. Could any plainer acknowledgment export is regularly carried on at Dover, Del., and elseof defeat be given than this? foundation of the Republic, three commodities have stood quantities of mincemeat in the same country. forth prominent in amount and value—cotton, tobacco, and cheese, and of these cotton has been the king. Yet will it monest thing in the world, and the business of shipping be believed that in 1784 an American ship which carried them has been of long duration. eight bags of cotton into Liverpool was seized on the ground States?

Tobacco to the amount of 55,000 pounds was exported ries large quantities. The principal articles of export are American enterprise in the struggle for supremacy in the as early as 1621. Since 1790 we have sent abroad 9,529,123 the mechanical or "clock-work" and the steam toys, but world's market has been handicapped by six serious draw- hogsheads, equal to 13,000,000 pounds. To transport there are also large shipments of tin and wooden toys, most backs. These are, lack of means of transportation, high this vast product would, it is estimated, require 19,058 ships, of which class were formerly exported from England or rates of interest on capital, high rates of marine insurance, carrying 500 hogsheads each, or a yearly average of 216 Germany. Wood is much cheaper in America than in carelessness in packing, waste of material in manufacturing, vessels of that capacity. Will somebody put that in his Europe, and machines work faster than hands.

> Last year, according to the official report of the Commissioner of the Internal Revenue, a greater quantity of manutobacco direct.

In Germany the clippings or refuse of the cigars made in arrangements for its regular export. allowed to accumulate in American manufactories for months, Taking the figures of 1875-6-7 as a basis, we have advanced until some speculator happened along and took the lot for a

Immense quantities of American made cigars have, within ing 141,000, and it is estimated that the trade already re-The possibilities of the future are enormous. To say that turns at the rate of \$4,000,000 per year, equal to an annual England.

> The foreign demand for American cheese exhibits a from Washington to New York. If the shipment were tons.

The quantity of milk used in the production of 107,000,. An American will turn out four times the quantity of '000 pounds of cheese may be computed by those having leiprice, they have actually beaten the Englishman on his own ground. New York State, by the way, deserves the major

On the subject of breadstuffs there is no need to enlarge fresh meat and mutton, both slaughtered and on the hoof, 1877. An American lady in Vienna, in a hurry to catch a train, have, within a comparatively short time, to quote an English newspaper, "deprived the English farmer of his last recommon thing in many a British household where it was a

> is now 28,000 tons. This coversoysters, butter, fruits, eggs, world.

What will be thought of the United States shipping plum filling orders from Russia and South America. Our car-"Yankee pattern household sundries, such as egg-whisks, pudding to England, potatoes to Ireland, oatmeal to Scot- riages, street-cars, and vehicles of all sorts are being sent in land, toys to Nuremberg, and lager beer to Germany? Yet all directions. Our petroleum lights the world. Statuary American goods. In another we learn that several extensive such are the facts, and they are no more astonishing than and paintings are regularly exported from this country to padlock makers in the South Staffordshire district are "busy the now thrice-told tale of the regular and profitable sale of Europe. Think of it!

Very few mechanical toys are now imported, and only the finer French and Austrian work for show-pieces in windows. American ingenuity has also multiplied the varieties of the detached works by European dealers by demanding prices which are practically prohibitory.

In May last a firm of German brewers sent a cask of Ameri-Since the reception of the letter the firm have received several orders from German houses for samples of lager beer, and the head of the concern has sailed for Europe to make

The Englishman has long had American turkeys regularly at Christmas, and he likes them. In January last a famous English house sent an agent to this country with orders to ship regularly every week fifty barrels of the finest quail, enterprise has proved a great success. Buffalo and antelope meat, venison and salmon are also among the innumerable articles of food sent from this country, not only to England, but to nearly every other civilized nation.

It would be unpardonable to close this paragraph, incomplete as it necessarily is, without a mention of the fact that a Boston company are turning out 8,000 cans, equal to 24,-000 pounds, of baked beans and codfish-balls daily, and

Room is lacking to pursue the subject to the extent it deserves, but there are numerous other points in the American general reader. Take the item of coffins, for instance. Coffins and caskets in the latest styles have long been among the regular articles of shipment abroad, and they command A warehouse containing 2,000 of American make was recently opened in London. Think of exporting hoop-skirts at In variety or excellence of raw material, no country regular during every secular day in the year the daily this late date. Twenty-two dollars' worth went abroad last

> Berlin has sent a large order for corsets to Worcester, Mass., and another for American silk to Rockville, Conn. Will any one question the good taste of the German ladies

Essex, Mass., exports steel pens to England.

An American firm have made a complete outfit of locks for the new Imperial Post Office in Bremen, where the American system of lock-boxes has been introduced.

Two cargoes of American coal were recently sent to Italy, and were sold readily at \$7 72 per ton, which covers cost and freightage and leaves a fair margin of profit. Heretofore, over 200,000 tons of English coke per annum, at \$11 58 per

A staple article of export to South America and the West fectionery.

Peanut oil, from North Carolina, sells well in Italy, and cotton seed oil has almost taken the place of olive oil throughout Europe. The export of this latter commodity machines running in a groove, and ambitious only to accom- newspaper reader require to be informed that American jumped from 281,000 gallons in 1876 to 1.705,000 gallons in

American jewelry goes everywhere, and American watches have nearly if not quite driven Swiss and English made to order a strap for her trunk. She was told that it could | source, his stalwart ox," and made the national roast beef a watches out of their own markets. The British Government purchased 200 stem-winders in December for the use of conductors and engineers on one of the State railroads in India, Our refrigerator tonnage, which was but 8.000 tons in 1876, and in February anagent of the Rotherham Watch Company of England visited this country and ordered a number of sets of the tools and machinery used here.

A Newark, N. J., sash and blind manufacturer filled a founder has recently fitted out churches in Constantinople and Bangkok.

Ameri an locomotive manufacturers are hard at work

In the fiscal year 1860, during which the largest crop was happened upon in his search for an example. raised and the greatest quantity was exported, 1,767,686,338 Britain.

where. The trade is not a new one, and exports are regu-

In all American exports-including breadstuffs-since the larly made to England. A Philadelphia firm sell large

Steamer agents say that potatoes to Ireland are the com

On April 23 the Devonia took 1,100 bags of oatmeal to The action of heat on ordinary limestone is seen wherever that so much cotton could not be the product of the United Glasgow, from which it must not be inferred that this is by such strata have come in close proximity to granite, the heat any means an isolated instance, but the first one the writer | from which, when in a molten state, having converted the limestone into crystalline marble. The various colors of the

The export trade in toys, which amounted last year to marbles are due to the admixture of the oxides of metals, pounds were sent abroad, over 1,265,000,000 going to Great over \$1,000,000, began some five or six years ago through | 1ron giving the red and brown tints, copper the green, and some presents sent abroad. Now nearly every steamer car- manganese the black.

Among other important items of export are books, scientific instruments, wines, pianos, carpets, furniture, toilet soaps, fine and coarse boots and shoes, glassware, scales, stoves, leather, writing inks, slates, marbles, pins, and tools and machinery of all kinds. And the best of it is these things sell on their merits, and not on account of their cheapness. But the list is unending.-N. Y. Times.

----MARBLE is a limestone that has become crystallized and hardened by heat so as to be capable of receiving a high polish.