For the Scientific American Carpeting.

be safely taken as an index of civilization. sing of the idea and the carrying of it into ef- an acorn, already it has become a young oak, account to render to justice; he was condem-The arts, indeed, are so intimately interwo- fect, he must have felt a pleasure much more with many branches, and nought shall hinder ned to pay fifty pounds sterling as a fine for ven, that one of them can scarcely flourish intense than is likely to be experienced by it to stretch yet farther toward the skies? having sold beer without a license, and the without giving rise to and receiving support from others. This is particularly the case in regard to the manufacture of carpets: which, like other branches of weaving, has received improvements at every hand, and has lately made important advances. The very fact of the existence of such a manufacture speaks volumes as to the increase of our domestic comforts.

In the superficial texture of the common carpet, nothing appears to distinnish it from an ordinary web; and a first observer is at a loss to imagine by what means its variety of colors can be produced On examining the They always appear in the Sun's torrid zone. figure more narrowly, it appears that the designer has labored under considerable difficulties: for, in many places where purity of color would have been advantageous, a mixed color of the warp and weft, only is to be found, while scarcely any gradual shading of the tints depending on the nature of the figure is to be seen. A still closer examination explains at once the source of these imperfections. The ingrain or double carpet is found to consist of two contiguous webs, intermingled with each other so as to produce the pattern; each of these webs, if woven singly, would have a striped appearance, being partly colored in the weft. One set of colored stripes is thus imposed upon another; and in designing the colors of the pattern, no selection beyond what is afforded by the judicious arrangement of these stripes can be made. The number of full colors is thus very limited and these can only be obtained where weft | good fortune once to witness. It is most retraverses warp of the same color. To bring up then a part of the figure full red, red warp must be traversed by *red weft*: these colors can be immediately concealed by sending the threads to the other web, but were they to re- broken into a vast number of fragments which | to pay him even such miserable wages as may main long there, both webs would become would be scattered over the surface of the enable him just to keep from starving. This monotonous. It is, therefore, extremely difficult to avoid a strong tendency to striping in these spots appear to be dashed and scattered tion of being an expert workman, or of having the colors, and except in the principal part of over the surface of the Sun. the figure, the colors can hardly be well managed, the secondary embellishments being al- or violent winds in the Sun's atmosphere. most matters of chance. Yet, in the face of But can winds exist in the sun? What is the all these difficuities, patterns of great beauty | cause of winds is simply this: The atmosare being continually formed on the carpet phere in different portions of our globe is unloom

The invention of the triple carpet, invented by Thomas Morton, of Kilmarnock, carpet is composed of three webs, which interchange their threads in order to produce the tion of the third web, appears to have been less on this than on the common ingrain carbut then he is he common ingrain carpet, plain texture on the other side. The superior beauty of the triple carpet over the common ingrain or two-ply carpet is at once acknowledged: It possesses almost all the freedom in coloring of the floor-cloth or paper-hanging gings in the Solar atmosphere, are the keys by while its great thickness and comparative cheapness bring it into competition with the more expensive kinds of carpeting.

The introducer of this texture (Mr. Morton) ment for the interior of our dwellings. and jestic mountains And why incredible? took him to prison. The next day when he with so much honor to myself."

benevolence and social disposition of man. where the feeble eye can never reach. For affair and was discharged on the payment of The progress of almost any of the arts may And it is agreeable to reflect, that in the nur note the history of this very discovery ! Once two shillings, but the merchant had another any of the multitudes who will enjoy the When Galileo through his rude telescope first poor laborer, as the informer of the offence refruits of his abilities. GILROY.

(To be continued.)

Spots in the Sun. We find that these spots are not fixed, but are continually dashing along the centre of the sun. Now, when we come to the consideration of the spots themselves, we find them characterised by certain remarkable phenomena, which will enable us to ascertain their cause. A spot never appears twice in the same place : but although they are not confined to a point, they are confined to regions. We never and the spot breaking out beyond that belt. Then, again, on looking more minutely, we find the spots themselves have a motion-a motion besides that which the rotation of the Sun causes, and it is most peculiar. We find that the spots which appear North of the Sun's Equator, move slowly toward the North, till they get to the temperate regions and then disappear. No instance has been known of spots formed in the North going South. Just so, spots of the South move towards the South temperate zone and

disappear. There is still another circumstance characterizing the mode in which they disappear. Sometimes they go on to the Sur's temperate right to the labor of artisans; but he does not regions and then die away. At other times, commonly exercise the right, receiving instead they do not disappear in this manner, but a certain tax, the amount of which varies acsplit up just as if they were exploded by some , cording to the man's income But it a man ; violent force. This phenomena I had the gets a reputation for any particular excellence markable. It has been compared to this :-Suppose a person to be standing on a frozen pond should take up a piece of ice and cast and for the courtiers and great men, and he it from him. Now, this mass of ice would be may think himself well off if he can get them pond. This is exactly the manner in which makes every man anxious to avoid the reputa-

Thesespotsare supposed to be hurricanes, equally heated. If all parts were heated in the same degree, there would be no winds. it, he sent an order for the man to repair im-One cause in the difference of heat on the mediately to the capital, to make china for the Scotland, has removed these difficulties. This | Earth is the shining of the Sun. At the Tor- Shah. The poor tellow, who knew the conrid Zone his rays are vertical, or nearly so, sequences, was terribly frightened at this orwhich renders his heat intense, while at the der. He went however, but not to make chipattern. The primary object in the introduc- North and South, his rays are very oblique; na. He scraped together all the money he consequently, the degree of heat in those re- could, and sold every thing he had to raise a the obtaining of greater variety and brilliancy gions is much less than it is at the Torrid Zone. bribe for the prime minister, whom he enof coloring; but another curious effect has Now, it is impossible that this cause should treated to tell the king that he was not the followed, that the two sides of the carpet are; operate to produce winds in the Sun. There i man who made the china; that the real potter necessarily counterparts to each other. To is another important cause, however, of had runaway, nobody knew where, and that companying these charts there is an abstract a certain extent the figure of the under must winds in the Earth which may exist in the he himself had been put under restraint by depend on that of the upper side, since Sun, viz; a difference in materials. This dif mistake, and praved to be released. The threads may be needed from the under web ference is such that if the rays of the sun | prime minister put the money in his pocket, to produce what is wanted in the chief pat- should cone down exactly the same on all and told the story to the king, who sent a retern on the upper side, but there still remains | parts of the Earth, the difference in the de- lease to the poor man, who joyfully returned the choice of an interchange of threads be- grees of heat would be very great. Take, for home, vowing that he would never more make tween the two inferior webs. It is abvious instance, a case of the sun shining on sand a bit of china, or make any kind of improvethat the tendency to striping must be much and on the water. The sand on the margin ment as long as ne lived. of a river may be scorching hot, while the pet, and that the designer having a far great- water is very cool. Now, where are the hot that they have a general right to the labor of er choice of colors may produce effects that | regions on the sun, and where are the cold? the mechanic, but the nation that would procould not before have been obtained. After Where is the Continent ? and where is the gress in science and art must encourage her the principal figure has been determined on, Ocean? Now, this inference is within the mechanics and artisans. Wherever we find theskill of the designer is most severely exer- range of science. There is, however, a diffi- labor degraded-there do we find barbaric tycised on the wrong side of the carpet. His culty in carrying the explanation out. It is ranny exalted choice of materials is indeed as great as with very probable that the phenomena of these hurricanes of ours are owing to the trade | hampered by the restriction in figure, and can winds. Now we cannot determine trade- has recently excited some public attention at object for which this enterprise was undertaonly be entirely at ease opposite a piece of winds in the body of the Sun. The question London. He had obtained at the cheapest with respect to these lies open for farther ob- possible rate a poor day-laborer to do some servation.

Mere, then, is another field of most engrossing speculation. This even, that these surwhich future generations may unlock his character, shrouded though now he is in his noble and unpenetrable splendor. This is the wing on which Intellect may pass where vihas conferred on us a very great favor; he sion never can, and explore the hidden Orb, has furnished us with a higher embellish his continents and oceans, his plains and ma-

presented to us another evidence of the active Why should not Intellect pass as of yore, was called before the judge he explained the noted a few dark specks on the disc of the ceived a third of the sum. burning Sun, that Globe of fire, as people thought, men were all struck in amaze, and because of their amaze almost would have stoned him. Time rolled by, during which some thought that the spots were the ashes of the burned Sun; others that they were the dark souls of the punished floating in fire. A great man then analyzed the spots and determined their character. By degrees, and only by degrees, and by the efforts of separate thinkers, they have come to be considered as a class, and those laws sought to be discerned on which deeper questions certainly depend. Tell me not that thought shall stop or the Human Intellect here be stayed. The mighty avalanche grows among its native heights unseen by Man, silent and unknown for ages, but as its mass enlarges. though it be but by the fall of flake after flake of the downy snow the moment of its freedom is approaching-the moment when delivered from bondage by a stroke of sunlight, it shall thunder to the plain, and the mountains shall shake with the echoes of its powers .- Professor Nichol.

Artisans in Persia.

The King is considered to have a general or skill in any trade, the king, or the governor of the province where he resides, sends for him, and makes him work for the monarch made improvements in his art. Mr. Fraser, in his " Narrative into a Journey into Khorasments in pottery, so far as to manufacture a chests from the Netherlands. These people sen," mentions a man who madesome improvsort of porcelain, resembling tolerable china are respectable and intelligent. When they ware. His fame quickly spread, and soon reached the court. When the king heard of

The Rich Man and Day Laborer.

work in his house. This unfortunate man, fatigued with work, represented to the merchants wife, that with so low wages he could not procure a glass of beer to quench his | tend Frederick the Great in his last illness. thirst. The compassionate 'voman gave him a tankard of ale, but the husband learned this presume, helped many a man into the other circumstance on his return, and when he settled with the laborer, retained the value of | coctor; but the dose he gave the King in rethe drink; the poor man exclaimed against it, turn was a judicious mixture of truth and and raised so great an uproar that the police | flattery-" Not so many as your majesty, nor

Young Men should read Good Books.

We have never known a young man who was not fond of reading become either as intelligent or moral as those who with a fondness for reading chaste and useful works, indulged such a taste whenever opportunity offered .--We have always hopes of a young man when we see him purchasing books instead of cigars or tobacco. Mark such a young man and you will see him certainly become one who is looked up to when he becomes a man. Three cents spent every day for cigars, or other nonsense, if treasured up for books, will purchase eleven dollars worth of books in the course of a year, and just look at the difference of the application. Money spent for books, is like purchasing that kind of food which invigorates the soul and nourishes it for noble actions, while money spent in the ball room or theatre, or for the gratification of an evil physical taste, is like purchasing that which takes away the proper nourishment of the mind and certainly is injurious to the body. Young men should read good books.

Interesting Datch Colony.

The Holland Immigrants recently settled in Iowa, have named their new settlement Pella' from Pella beyond Jordan, to which the early Christians fled upon the destruction of Jerusalem by the Romans. It is two or three months old, and numbers 800 inhabitants. Large numbers are to join them in the Spring when their Pella will suddenly become a populous prairie town. It is a singular sight, says a correspondent of the Christian Intelligencer, the velvet jackets and wooden shoes of these Puritans of the 19th century, in the midst of the prairies of the New Porchase, that stretch from the Des Moines to the Cheaque, in Central Iowa. They are living in camps covered with tentcloth, or grass and bushes-the sides barricaded with all sorts of odd looking boxes and took the oath of allegiance to the United States, a few weeks since, but two made their marks. Many of the leading men possess unusual refinement and education.

Charts of the Winds, Currente, Etc.

A series of charts has just been published by Lieut. M. F. Maury, superintendant of the national observatory, prepared by authority of Commodore Warrington, chief of the naval bureau of construction, designed to show the force and direction of the winds and currents of the North Atlantic Ocean. Aclog, designed for shipmasters, in which they can enter their daily run, currents, thermometrical observations, &c. The charts will be given to shipmasters who are willing to keep the above log, and forward it to Washington, on their return. The object is, by a succession of observations under different circumstances, and at different seasons, to ve-[There are more than kings who consider | rify the currents of wind and water known to exist in and over the Atlantic, and which, when verified, will, it is obvious, afford some new guide, as to the course which vessels should steer at particular seasons.

Copies of these charts and the abstract log have been left with the different collectors, and will be furnished to such masters of vessels as are willing to aid the praiseworth ken.

Frederick the Great and Zimmerman. Dr. Zimmerman the author and physican of celebrity, known by his works on Solitude and National pride, went from Hanover to at-One day, the King said to him, "you have, I world?" This was rather a bitter pill for the