For the Scientific American. The Carpet Manufacture. (Concluded from our last)

the form and regularity of the several coils Milan, by which it was ascertained that a cy- i my of Egyptian life, with the arts and occumade by each thread and set of threads, a- press which grows in that city was in exist- pations, customs and costumes of all grades, round the cylinder, after they are taken ence in the time of Julius Cæsar. Now that vocations and professions. Volumes could therefrom, and during the process of wash- tree is only twenty six feet in circumference not have contained such exact and copious de- a lower rank in creation than either, are loning and steaming them, it is proper to pass a while the Mexican cypress was 120 feet. tails of the most minute facts and events in ger lived than birds; it has been said of small cord of worsted amongst the convolu- Therewas nothing in the constitution of trees Egyptian history. The entire social econo- some species, and certain snakes also, that tions, under and over them alternately, tying | at present existing to prevent their living on my of the Egyptians, 1800 years B. C., with its ends together. This interlacing of a cord to the end of time, whether measured by hun- a delineation of all their mechanical vocations across the several coils may be applied at two dreas or thousands of years. There has been and the progress of artisans thus set forth with to their indefinite term of life. And the different places of each set of coils, before they exhibited a section of the largest branch wonderful truthfulness and vividness, are toad, it cannot indeed be said that the toad are taken off from the cylinder, and it will of a yew tree which grew at Forthampton, faithfully represented in Rosselin's Plates of lives forever, but many of these animals who facilitate the winding afterwards upon beb- Gloucestershire. It was nine inches in di- monumental history. These pictorial delinbins, as it will preserve the threads from en- ameter, yet 228 perfect and distinct rings eations prove that many arts which have been likely to live till they are baked in their cells tanglement.

colored yarns, suitably variegated with colors | tained that the average amount of its growth | manufacture of glass and porcelain, and of and arranged in suitable order in the warp, laterally was three twelfths of an inch in a fine linen-the imitation of precious stones Orleans to Liverpool John Miller, who had according to the intended pattern, the weav- year. The circumference of the whole tree with glass, and the staining of that material, been for sixteen months in our western wilds ing is to be conducted in the usual manner of was twenty-seven feet, and hence its age afterwards for ages lost. Thebes, 4,000 years collecting and preserving rare specimens of what is called plain weaving, and will pro- would be 1370 years. This lands us in the ago, if less advanced than the 19th century birds, reptiles, insects, &c. Though only a duce a fabric with a figured pattern in colors time of the Saxons; and we have not the in some respects, is thus proven to have tar without any of the troublesome manipu- least doubt that there are yews still in exist- surpassed it in others. Astronomical discov- vantage of poverty, and a very limited edulations which are necessary for what is ence which began to grow long before the eries and tables prove, also that the wise men cation, he displayed askilland shrewdness in called figure weaving.

Turkey carpets, the weavers must have in and, there is a yew tree the age of which gree of perfectness; and the minutest sculpuse as many different skeins or clews of differ- must be more than 2,500 years. It is evi- turing on some of the hardest porphyry, dem- desire to explore different parts of North Ament colors as the variegation in his pattern re- dent that, as the vitality exists in the liber, onstrate that the artisan's tools must have pos- erica in quest of birds and other natural curiquires, and must select first a skein or clew, the tree can go on constantly pushing forth, sessed the keenest edge and most exquisite of one color, and then another, with discre- its fresh rings of wood, when the centre is temper. The principle of the Artesian Well dint of rigid perseverance and economy, and tion to suit his pattern; he will, according to this improved mode of Mr. Whytock's require to use only one skein or clew of yarn, which, being rendered party colored in due order of succession of colors, will furnish all the variation of coloring necessary for forming the successive tufts which he will require in his work, and following each other in due order as they will be wanted. And as he works up the skein or clew of partycolored yarn by putting in tuft after tuft, and cutting off the varn each time, those successive tufts will change their coloraccording to the intended order of succession of colors which the pattern requires, without any trouble of selecting colors and changing skeins with perpetual reference to the pattern, as heretofore, but only occasional references thereto, and without the same liability to mistake in so selecting, and the waste of colored yarn which is occasioned by such mistakes: and also, the number of ends remaining from the number of skeins which must be used, will be much diminished by rendering the yarns party-colored. By this mode of party-coloring the yarns, the joinings of the patches of color which were applied successively, will indicate the exact place where the yarn is to be cut off as the tufts are introduced, whereby waste of material in cutting off too long may be avoided, as well as imperfections in the face of the work by cutting off too short. [Note.-A saving of coloring material may be made in rendering the threads for Turkey carpets party-colored, by omitting to apply any color to It was the most ancient of all lang ge those parts of the yarns which are afterwards to be looped or knotted around the threads of the warp, and which parts will therefore only appear at the back of the fabric, and will consequently require no color; these omis- the medium of sounds-the names of things, sions can be easily made in their proper pla- and *pictures* of the things themselves. The ces along the party-colored threads, by set- representation of a lion, for example, might, ting out the pattern so that those parts of the as a symbol, mean the animal itself, or it threads will be known when they are wound might convey the qualities of his power, or round the cylinder, and may be passed over alphabetically, it might express the letter L. without applying any coloring matter thereon. These three modes of hieroglyphic writing The places which are left uncolored in the were used singly or together, and were incithreads will be extremely useful as indica- dent to great obscurity from this undermixtions to the weaver of the places where the ture. All of the sculptural history of Egypt tufts are to loop and knot around the threads is transmitted in this system. of the warp.-GILROY.

The Size and Age of Trees.

a baobab tree to which the largest oaks would be mere saplings, and the stem of which measured from 80 to 120 or 130 feet in girth. As they could not cut a tree down every time they wished to ascertain its age, they measured it, and thus formed an apyears. The celebrated cypress of Mexico | language.

did not destroy the trees, since the dove tian history. Upon the immense walls of the brought to Noah a branch of the living olive tombs and temples were spread out pictorial In order to preserve as much as possible tree. Records still exist in the library at or sculptural representations of all the econocould be counted in it. Decandolle from an supposed unknown to antiquity, were as well at the general conflagration. The warp being thus composed of party- examination of a number of yew trees, ascer- understood then as at the present day. The According to the ordinary mode of weaving | gal, a village among the Grampians in Scot- bringing scientific instruments to a high de- stamped him as a man of very superior abiliseems as if it could go on forever.

> Protecting Wail Fruit From Insects. The ant occupies a distinguished position as a depredator on wall-fruit. No sooner has lintels on the domes of the temple of Carnac, and selling specimens amongst the inhabian insect "of a larger growth" commenced the destruction of a fruit than these little pests assemble in myraids and complete the demolition: and this is often carried on by means of a minute aperture in the cuticle of the fruit next the wall, so that some of our finest fruit is often destroyed ere we become aware of the fact. The usual wasp-trap is means of these powers and arts, were con- after being about a month on the passage. of little or no service in the destruction of the ant, and even muslin bags, so effectual for the exclusion of flies, &c., are often ineffectual. The best remedy for the prevention of the attacks of the whole insect race is common tow or hemp. As soon as the fruit, from its ripeness, begins to become attractive envelope a thin coating of this substance, packing it well between the fruit and the wall, and no insect will venture to molest it. The fine filaments of the hemp form a complete chevaux de frise to their attacks. Even the minute ant fails to penetrate them. A fine crop of peaches, which were required to be preserved for a particular occasion was treated in the manner described, and out of several dozen from one tree, not one fruithad the least blemish from the attack of an insect.

Egypt and her Ancient Arts.

The hieroglyphic system of Egyptian writing, like the Sanscrit of India, was sacred and is the depository of the records of the monumental annals of a mighty empire. In its nature it was alphabetic, symbolic and pictorial. Its meaning was conveyed through

For the recording of continuous events. leaves of the Papyrus, an aquatic plant of the The traveller Adamson discovered in India Nile, and slips of fine linen were used. Numerous rolls of this species of manuscript are found in all the temples and tombs, and their which, in our present state of knowledge, apsecrets have been revealed by science. pears so unintelligible as the scale of longev-Champollion perfected a key to the entire system. The process was to decipher the characters-next to interpret the words they provimate guess. They thus came to the con- formed. To accomplish this last process, clusion that baobabs existed for five thousand | it was necessary to refer to the ancient Coptic

these. It must be remarked that the deluge ' exhumed a new book of Monumental Egyp-Romans marched over Britain. At Fortin- of Egypt must have possessed the art of the pursuit of his favorite study, which dead: the vital principal is still working, and as also that of the Railway, was plainly known sailed from Liverpool on the 17th of Septemand practised. The engraving of cameos, ber, 1846, in pursuit of his favorite object. the tempering of copper, and the manufac- He remained eight months about St. Louis, ture and use of burning glasses, were also in killing and preserving animals, supportknown; while the elevation of the enormous ing himself during that time by preparing and the position and removal from great dis- tar.ts. The assiduity with which he followtances of other vast and ponderous masses of ed his pursuit, and the variety of climates he stones, prove the pessession of motive and had to encounter, brought on an illness, unmechanical powers now lost. The motive der which he labored six months, gradually principles possessed by the Egyptians could growing worse : in which condition he emnot be so applied at the present time. By barked at New Orleans for England, and died structed these mighty and mysterious masses The specimens of curiosities he had acquired, of architecture which have been the wonder consisting of birds, insects serpents, and othof all subsequent ages—these giant sentinels er things, have been carried to Liverpool. of the dead past,-labrynths whose rocky Heleft a widow and seven children. masses imitated the heaveniy zodiac-huge statues with the semblance of the shadowy phantoms of a Titanic race, and whole tem ples of siennite marble, transported a hundred miles from its bed !--- and the dread and otence, the mightiest on our earth. Yet, all | these, to the spectator, gazing down from the summits of the porphyry mountains of the tural skeletons of an elder time, whose spires Nile, seem but the fragments of the architecglitter amid the blue heavens, but whose depths were based in blood.

Coal on the Pacific Coast.

The Valparaiso Neighbor of October, 1847 says :- The prospects of obtaining coal from at the right hand of the road leading to Conception, in which a seam of coal has been found one and a half yards thick. In the tide way of Phinco they are working another, some 200 yards from the keach, and have cut vertically to the distance of ten feet. And ty. In all there are now five mines, and the main question at present is to find a purchasing demand equal to the supply.

Longevity.

There is nothing in the system of nature, ity. It must be admitted, indeed, that our knowledge, upon this subject is very imperfect, for all that is known of domestical animals, and the accidental facts which have been preserved concerning others, teads to the strange result, that longevity bears no rewas at least as old, if not older still than The excavations of the French explorers lation either to strength size complexity of down.

organization, or intellectual power. True it is, that birds, which seem to rank higher than beasts in the scale of being, are also much longer lived. Thirty is a great age for a horse : dogs usually live from fourteen years totwenty; but it is known that the goose and hawk exceed a century. But fish, evidently they grow as long as thev live. and as far as we know, live till some accident puts an end were cased up at the general deluge are

Decease of a Mechanic Naturalist.

There lately died on his passage from New working man, and laboring under the disadties and natural talents. Through a strong osities, he contrived to save a few pounds by

Schiller's Use of Bodily Suffering.

I have often been acquainted with persons both men and women, in whom this condition of (constant bodily suffering) was habitual, awful pyramids, next to the works of Omnipof ever getting free from it unless by death. To this class, especially, Schiller belonged. He suffered much, suffered constantly, and, knew too, that as was actually the case these death. Yet of him it might truly be said, that he kept his sickness imprisoned within the limits of his body; for at whatever hour you might visit him, in whatever state you might find him, his mind was always cheerful and tranquil, and ready for friendly inthe neighborhood of Conception have lately tercourse, and for interesting and even probecome very fine. By the last accounts the found conversation, He would even say, at promise was excellent both as to the amount times, that a man could work better in certo be had, and as to quality of the coal. A tain states of boldy aliment,-not those, of gentlemen writing from Talcahuana states course of acute suffering, and I have found that one mine has been opened on land lying him, while actually in this uncomfortable condition, composing poems and prose essays in which no one, surely, could discover a trace of this circumstance of their birth.-Letters by W. Van Humboldt.

The Bond of the House

The English term "husband" is derived have not passed the coal even at that. Then from the Anglo-Saxon words hus and band a third has been opened at the Pareles, also on ' which signify the "bond of the house;" and the side of the road to Conception. The coal it was anciently spelt house-bond, and contiobtained from this is of most excellent quali- nued to be spelt in some editions of the English bible, after the introduction of the art of printing. A husband then, is a house-bondthe bond of a house-that which engirdles the family into the union of strength and the oneness of love. Wife, and children, and "stranger within the gates"-all their interests and all their happiness are encircled in the house-bond's embrace, the objects of his protection, and of his special care. What a fine picture is this of a husband's duty, and a family's privilege ?

> The old house in which Louis Phillippe lived in Philadelphia has just been torn