All About Dolls.

None of the millions of China and wax dolls which are sold annually in the United States are manufactured here. Germany, England and France supply the world with dolls, and the manufacture or control of the same is in such a small number of hands that they can manipulate the market to a great degree, and can create great famines or run corners to suit their convenience or

Go into one of the great toy establishments, and while rows of patterns will be found of the most exquisite cast and feature that one can conceive; faces that seem unparalleled for beauty; yet, these models are the exact counterparts of little children, which the maker has found in some country or clime. It is his duty to examine the successive generations of the human race, and select the most beantiful for reproduction in wax and plaster. The model originates all new fashions in dolls. Fashions in dolls! one exclaims. Yes, dolls are changeable in style as the modern woman. The modelers are scientifically exact in reproducing and molding the facial expression.

The artizan sometimes gets into trouble. It is related that one of the profession saw a child of surpassing peauty in the street. It had a mere exquisite cast of countenance than he had ever before seen. When no one was looking he coaxed the child a short distance, and rapidly repaired with it to his quarters. It was not long before the country was aroused over the mysterious disappearance. Rewards were freely of-fered for the recovery of the child, and threats against the abductor. Meantime he fashioned a model of more than rare beauty, and fearing the consequences of abduction, he dispatched the child. The dolls were manufactured and stamped on a doll in a toy store. The whole matter at once dawned upon him, and the guilty person was traced out and

models at home. A figure is first made out of lime and plaster of paris. The eyes, nose and mouth are cut out with a name of our illustrious countryman, knife. The figure is then dipped in red- Darwin, is intimatel, associated and the hot wax and dried. The doll is next painted, after which it is sent to the hairdresser to finish, and finally given to girls to dress. A good quality of doll will have a thick coating of wax. Cheaply made wax dolls invariably crack in cold weather. The wax which is used comes from bees and "perfin." There are whole villages in Germany which do nothing arrived. We can not wonder that Darelse but make dolls, of which Stoneburg is the most famous.

China dolls are made in factories. They are first modeled, and burned in ovens. After this process they are removed, painted and glazed. This operation involves a great risk. Suppose 5000 to be in the oven at one time. No matter how much time there is given at the baking, they are liable to come out in all sorts of shapes, from which, perhaps, but 1000 first-class specimens will be secured. If the tender sleep a wink or be inattentive the whole lot may come out bungled. What becomes of the spoiled ones? They are sold to cheap descendants." stores, which retail them as first-class at Darwin commenced his work by dislie. They may be found flooding fairs 150,000 can be baked at once.

ing night and day. They require constant care. If a draft of air be admitted, up, the result will be disastrous. The doll manufactories in Germany alone employ 200,000 people. The best dolls Germany has been in operation 125 years and is the oldest in the world. There are now said to be one thousand different models for dolls. There was such enormous demand in 1879 that an actual doll famine occurred and the American foreign sapply was cut off.

## Hygiene of the Teeth.

A hard crust is the best possible dentilieve in the natural necessity of a toothdoos, the natives of Southern Europe, the South Sea Islanders, the Arabs, the South American vegetarians-in short, our next relatives, the frugivorous animals, have splendid teeth without sozo-dont. I really believe that ours decay from sheer disuse; the boarding house homo lives chiefly on pap-wants all his meats soft-boiled, and growls at cold biscuit or an underdone potato; in other this year. words, he delegates to the cook the occasionally of men getting a second, or rather third, set of teeth. I met one of them in Northern Guatemala, and ascercircumstances obliged him to resume the hard corn-cake diet of his boyhood years. His teeth had reappeared, as soon as their services were called for, and would probably never have absented themselves if a pap-diet had not made them superfluous. An artificial denti-frice will certainly keep the teeth white, but that does not prevent their premature decay; disuse gradually softens their substance, till one fine day the hash-eater snaps his best incisor upon an unexpected piece of bone. Every old dentist knows hundreds of city customers whom the daily use of a toothof applying before the end of the fortieth again and again, growing small by deyear, fc. a complete "celluloid set." do not say that a soft tooth-brush and such dentrifices as oatmeal or burned Let a child invigorate its teeth by chewing a hard crust, or, better yet, a hand-of your diet. Health will be preserved ful of "St. John's bread" or carob-beans, the edible pod of the Mimosa siliqua. Children and whole tribes of the northern races seem to feel an instinctive de- ionable traveling dress.

sire to exercise their teeth upon some solid substance, as pet squirrels will gnaw the furniture if you give them nutkernels instead of nuts. Thus Kohl tells us that the natives of southern Russia are addicted to the practice of chewing a vegetable product which he at first supposed to be pumpkin or melon seeds, but found to be the much harder seed of the Turkish sunflower. Their national diet consists of milk, kukuruz (hominy with butter, etc.), and boiled mutton, and they seem to feel that their Turkoman jaws need something more substantial. The Mimosa siliqua would yield abundantly in our Southern States, and its sweet pods would make an excellent substitute for chewing-gum. Our practice of sipping ice-cold and steaming-hot drinks, turn about, has also a very injurious effect upon the enamel of our teeth; no porcelain glaze would stand such abuse for any length of time, and experience has taught hunters that it destroys even the bone-crushing fangs of the animal from which our canine teeth derive their name .- [Popular Science.

### Progress of Biology in England.

The Biological Section is that with which I have been most intimately associated, and with which, perhaps, it is natural that I should begin. Fifty years ago it was the general opinion that animals and plants came into existence just as we see them. We took pleasure in their beauty; their adaptation to their habits and mode of life in many cases could not be overlooked or misunderstood. Nevertheless, the book of Nature was like some richly illuminated missal, written in an unknown tongue; the graceful forms of the letters, the beauty of the coloring, excited our wonder and admiration; but of the true meaning little was known to us; indeed, sent to many countries, meeting with a remarkable sale. One day a detective discovered the face of the lost child glimpses of the truth are gradually revealing themselves; we perceive that there is a reason-and in many cases we know what that reason is-for every difference in form, size and in color; for The wax dolls are, of course, the finest.

It requires great skill to make them. The material is sold to workmen who have which is solved opens out vistas, as it year 1850 will always be memorable in science as having produced his great work on "The Origin of Species." the previous year he and Wallace had published short papers, in which they clearly state the theory of natural selection, at which they had simultaneously and independently win's views should have at first excited great opposition. Nevertheless, from the first they met with powerful support, especially in this country, from Hooker, Huxley and Herbert Spencer. The theory is based on four axioms:

"1. That no two animals or plants in nature are identical in all respects. 2. That the offspring tend to inherit the peculiarities of their parents. 3. That of those which come into existence, only a small number reach maturity. 4. That those which are, on the whole, best adapted to the circumstances in which they are placed are most likely to leave

an enormous profit to a victimized pub- cussing the causes and extent of variability in animals, and the origin of There will be some girls there!" and similar resorts. People who want domestic varieties; he showed the imgood dolls can only find them at possibility of distinguishing between first-class establishments. The poor varieties and species, and pointed out the goods generally have black spots, or a wide differences which man has proflaw in the shape. Dolls are found in | duced in some cases-as, for instance, in eighteen different sizes. Number our domestic pigeons, all unquestionably eighteen is very large and requires a descended from a common stock. He strong child to carry it. One factory in dwelt on the struggle for existence Germany owns six ovens, into which (which has since become a horsehold word), and which, inevitably resulting It requires one week to bake them in the survival of the fittest, tends gradproperly and the fires must be kept go- ually to adapt any race of animals to the conditions in which it occurs. While thus, however, showing the great imor if a certain temperature is not kept portance of natural selection, he attributed to it no exclusive influence, but fully admitted that other causes—the use and disuse of organs, sexual selecemenate from Paris. One firm in tion, etc.-had to be taken into consideration .- Sir John Lubbock.

## Comet Racing for the Sun

Two comets are now approaching the sun, Encke's, which is no stranger, as it revisits us once in every three and a half years, and the new one discovered in the northeast on the night that President Garfield died. Neither is yet visible to the naked eye. Encke's rarely becomes frice. I never could get myself to be- bright enough to be seen without telescopes, but the new comet has possibilibrush. The African nations, the Hin- ties. It would not be unprecedented if we should have two brilliant comets this year. Two of the grandest comets on record appeared in the year 1402. At three-fourths of our fellow men, besides the very time that the enormous comet of 1618 was scaring Europe, another huge comet was visible in the southern hemisphere. It was also a mistake to suppose that 1881 has furnished an unprecedented number of comets. Only four new comets have been discovered

In 1858, the year of the great comet, proper functions of his teeth. We hear no less than eight comets were seen, of which six were new ones. In 1846 there were nine comets visible, of which eight such notes to my office. Yours virtuhad never been seen before. There have tained that he had become toothless dur-ing a twelve years' sojourn in a seaport comets had been seen. So, whatever town, and that he got his new set upon | may be claimed for 1881 on account of his return to his native village, where its other marvels, it certainly does not yet take the front rank as a comet year. A prominent clergyman, being asked why he accepted the call (one of many) with the largest salary, replied that "he desired to go where there was the most sin-consequently located where the money was most plenty."

Nothing is more unsatisfactory than to sit down day after day to the same bill of fare. There are houses where the mistress seems to have no inventive faculty, acquired or inste. Breakfast consists, from Monday till Saturday, of the same fried pork and potatoes, or sausage and brush did not save from the necessity cakes. Remnants of things come on grees till one grows tired of seeing the dish of apple sauce or the saucer of prunes, and is tempted to give them to the dog or arrow-root can do any harm, but, for pigs. All this can be remedied by a little plan. Manage for your own family sanitary purposes, such precautions must tle plan. Manage for your own family be supplemented by dental exercise. as if you had guests, and vary the arthus and dyspepsia averted.

Small peterines accompany every fash-

A Matrimonial Complication.

This was the document that caused the trouble in the Herbert household: MY DEAR GEORGE: As I told you, Paul lost the bet. In accordance with the agreement, we are all to meet at the Maison Doree to morrow evening, and have a supper. Ten your wife you're going to the office, club-anywhere. There'll be some girls there, and we'll have a high old time-such a time as we haven't had since we were married.

Your companion in iniquity, CHARLES MONTELLE. This is the letter that the wife of George Herbert's bosom found in his overcoat pocket. She read it. I have not the dramatic skill necessary to describe her grief and indignation. What could she do? She thought first of all, and quite naturally, to destroy this impudent invitation. Bad! Second, to present it suddenly to George, and to concentrate all her wrath in asking him what it meant. Bad! Bad! After having hesitated between several courses, she decided to replace it, and to watch her husband.

At dinner she began: "Are you going out this evening, my dear?

"As usual, my love." "And you are going-"

"To the club, as usual," replied George, buttoning his gloves. "To the club?"

"Yes. Good-bye, my dear." "You will come home early, I hope?" "The usual hour-about eleven." "Not before?"

"Perhaps before." "Listen, George." "Well, my dear."

"Sacrifice this evening to me." "What a caprice!"

"Yet, a caprice, as you say. But lease stay at home.' "If I stay at home, what shall we do?"

"Why, we will sit by the fire and chat. We will talk of the past -of the past when you loved me so much." "Why, it would be quite like a novel," said George, dryly.

"But will you?" "No, my love; I must go to the club. I have an engagement there, on busi-

"You are in a great hurry, I think." "I am anxious to get a little air."
"George!" said his wife, fortissimo.

"Well, what now?" "Wait a minute." "Well?"

"You are dressed with particular care. "Not more than usual."

"Yes, yes! You look more stylish." "True, this coat sets very well," remarked George, complacently.
"George Herbert!" said his wife, "you are a base, deceitful wretch. There will be girls there!" And she burst into

George stared at her in apparent amazement. "But what do you mean,

my dear?" "Hypocrite! Coward! Wretch! Traitor! Monster! Villain! Libertine! Deceiver!" remarked Mrs. H. "Ah, unhappy woman that I am!" And she fell sobbing on

the sofa. "Madame," said George, severely, "will you be good enough to tell me the motive of a scene of such dubious taste?" "You deceitful wretch!" said madame, rising. "You did not hear me, then?

"Heavens!" said George, "she has seen Charles' letter!" "Yes," said madame, bitterly, "from your companion in iniquity, who awaits

you at supper to hight.' "Dear me!" said George, with admira-ble sang-froid, "was it for to-day? I had absolutely forgotten."

"Forgotten, indeed! A likely story. I am glad you do not deny the letter." "Deny it! Why should I? I cannot prevent people writing to me, but I can

deny that I answered it." "But he expects you to night."
"Let him expect," said George, hero-

"Are you going to try to make me believe that you are not going to this rendezvous? 'I had not the smallest intention of

going to it," replied the mendacious man. "If I could believe you, George," said

madame, relenting. "I swear it, my dear," said George,
"and the proof is—" Here he took off his

"Oh, George!" said madame, tenderly, if I have wronged you-"You have-deeply.

"Then forgive me, my own dear, darling George!" They embrace tenderly. Curtain,

\* \*

This was the document that reached Charles Montelle next day:
My DEAR Boy: I had a pretty close call yesterday. On Thursday my wife

found your note bidding me come to Wednesday's supper. She did not no-tice the date, and on Thursday she accused me of wanting to go on a tear. became virtuously indignant at once, and it was only by staying home Thursday evening that I convinced her that I was not going to join you in your iniquity. But don't do it again. Next time send GEORGE HERBERT. ously,

A THIBTEEN-FOOT CORNSTALK.—The La Crosse (Wis.) Chronicle says: "Recently we published a statement about cornstalks eleven feet high or so. This was not done without misgivings, because we knew the honest grangers of La Crosse county would hop on to that story with a cornstalk vastly larger. Yesterday our fears were realized when a prominent legal gentleman of La Crosse stalked into our counting room with one trailing along behind him over thirteen feet in length. This stalk was accompanied by an ear of corn over a foot long, containing 936 grains, with a few little gnarly grains to spare. This gigantic corn was planted May 15th, and on the 1st of June was only four inches high

and not very promising." Herr Stebler's researches do not confirm the theory that light hinders germination of seeds generally. He admits the probability, however, that light may not be advantageous in the case of seeds that germinate quickly and easily, such as clover, beans or peas. He says that the germination of certain seeds, especially those of the grasses, will not take place at all, or with great difficulty in darkness.

MECHANICS PAIR.

Noticenbie Displays.

THE OREGON TREE SAWYER. This is a very important invention in a country so heavily timbered as Oregon. It is on display at the west end of the building in the main hall, and is a great attraction. It is a very simple arrangement, but durable and inexpensive. In sawing down trees one man can do the work of three choppers. It is well adapted to sawing trees close to the ground, can be adjusted to the tree in one minute, is light, and can be easily carried by one man. It was invented by W. Hampton Smith, Portland, who is now ready to fill orders from all parts of Oregon and Washington. The price is \$10 for the saw, and it will save that amount in three days' labor, as a man can easily cut down thirty large trees in one day with it. Mr. Smith's address is 268 Front street, Portland, Oregon.

THOMPSON, DE HART AND CO. This well known Portland house made a much smaller display of goods at the Fair than they did last year. Their im-mense increase of business during the season and the rush of orders to supply the fall trade is their only excuse for not making as full an exhibit. They, however, display samples of standard goods, and one can see by them the solid trade they supply. Four years ago the house came into existence and to-day it stands at the head of dealers in its line of goods on this Northwest coast. One of the partners, Mr. E. J. DeHart, the past season made a business trip to the East, and, aside from making an immense increase in the supply of their goods, arranged for direct importation and shipments. The "North Bend" a few weeks ago came direct to Portland consigned to this house loaded with fine Cumberland coal for blacksmiths' use. This coal is fine, and is unmixed with inferior and worthless articles as is much of the coal sold in this market from San Francisco. This house guarantees its coal and it will stand the most searching test. They also carry a large stock of hardwood lumber and wagon material and can fill orders for any kind of goods in that line. By being direct importers they are able to give country customers such low prices that the agent of a large California house was forced lately to admit that he could not sell goods to the Oregon trade in competition with Thompson; DeHart & Co.

W. W. ESPEY Exhibits in the new gallery above machinery hall the finest specimens of the carriage maker's art ever shown in Oregon. Of the one dozen samples shown, not one but is perfect in every detail and elegant in finish. Entering this gallery by the stairway to the left of the western entrance we view this display collectively and pronounce it without hesitation one of the very finest representatives of Oregon industry shown. Viewing it in detail we note a "Cabriolet" of elegant design and finish, in which a President's wife might be proud to take an airing; next in order is an "Extension top phaeton," equal in workmanship to the first, and looking suggestive of pleasant drives in the future; following this are two top buggies, single seated, substantial and elegant; then comes the novelty of the group, a four passenger "English dog cart," the passengers to form a "thoroughbrace" for each other as they ride in pairs, two taking advance and two receding views of the landscape as they travel. The foot-rests, dashboards, springs, etc., in this novel vehi-cle are complete, and show that they are designed with the simple view of comfort to the traveler. Then we have a "Webfoot cart," complimentary to Ore-gon and destined to be a favorite in its class. A side spring, piano top buggy, simple in construction and elegant in finish. An Oregon back, made with reference to durability and capable of bearing six passengers with case and comfort over the worst of winter roads without danger of a breakdown, every piece well and carefully fitted; a buckboard so handsome that the idea of becoming tired while perched upon it, even in the most abrupt mountain passes can hardly be entertained, and lightrunning gears, showing the strength and nicety of construction upon which all are founded. Cards announcing that they are entered "for competition," are attached to most of these vehicles, but we look in vain for articles in their line that can hope to compete with Mr. Espey's display. Thoroughness in work, com-pleteness in detail, elegance in finish durability in construction, combine and are rendered apparent in each vehicle shown, stamp the industry that constructs and places them on exhibition as one of importance, that has only to be seen to be recognized by the public. A description of the specimens cannot do them justice, and those who are prepared to recognize and appreciate skill and industry as combined in mechanics, will not fail to visit Mr. Espey's carriages now on exhibition at the Mechanics Pavilion, and sent out from his establishment on Salmon street between Front and

Everybody that has tried Ammen's Cough Everybody that has tried Ammen's Cough Syrup continues its use; besides they tell their neignbors of it. We were in a drug store the other day when a customer asked for a bottle of Ammen's Cough Syrup, saying, "I do not know anything about it ruyself, but my neighbor ad vised me to buy it for my cold, and tells me that the use of three bottles has entirely cured his cough of two years' standing; in fact, he says 'It is the best medicine in the world for coughs, colds and lung complaints,' and that a one-udlar bottle did him more good than all prescriptions he had from the doctors."

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