ST. JOHN, N. B., SATURDAY, MAY 2, 1891.

TO THE LOVER OF NATURE.

The Flying Squirrel and His Relatives-The Evolution of the Song Bird-An Interview Habits.

she seems to have whispered a hint or promise of the same gift to the red squirrel. to obtain it. There seemed to be no other At least there is a distinct suggestion of the avenue but the chimney flue. same power in the latter. When hard pressed the red squirrel will trust himself to the air with the same faith that the flying squirrel does, but, it must be admitted, with only a fraction of the success of the latter. He makes himself into a rude sort of parachute, which breaks the force of his fall very much. The other day my dog ran one up the side of the house, through the woodbine, upon the roof. As I opened fire upon him with handfuls of gravel, to give him to understand he was not welcome there, he boldly launched out into the air and came down upon the gravel walk, 30 feet below, with surprising lightness and apparently without the least shock or injury, and was off in an instant beyond the reach of the dog. On another occasion I saw one leap from the top of a hickory tree | ures. If you find any marked trait or gift and fall through the air at least forty feet and alight without injury. During gestions of it, as it were, preliminary their descent upon such occasions their legs are widely extended, their bodies binds together the animal life of the globe, are broadened and flattened, the tail stiff- but of a kind of overflow in nature which ened and slightly curved, and a curious tremulous motion runs through all. It is very obvious that a deliberate attempt is Or if looked at from the other way a promade to present the broadest surface pos- gressive series, the idea being more and sible to the air, and I think a red squirrel might leap from almost any height to the ground without serious injury. Our flying squirrel is in no proper serious and a squirrel is in no squirrel is in no squirrel in the squirrel is in no squirrel in the squirrel is in no proper sense a flyer. On thrasher is an advance upon the cat-bird the ground he is more helpless than a and the mocking bird is an advance upon the brown-thrasher in the same direction. chipmunk because less agile. He can only Each one carries the special gift of song or sail or slide down a steep incline from the mimicking some stages forward. The top of one tree to the foot of another. The same among the larks, through the tit lark, flying squirrel is active only at night, hence | shore lark up to the crowning triumph of its large soft eyes, its soft fur and its gentle, shrinking ways. It is the gentlest and bler, and includes the robin red breast. most harmless of our rodents. A pair of Our ground-sparrow songs probably reach she once put a looking glass down on the the middle of a mountain lake. I was flight of the family always takes place in for reproduction by the phonograph. An them for two or three successive years, had their nest behind the blinds of an upper window of a large unoccupied country house

the window pane against which their nest SOME SEASONABLE SUGGESTIONS pressed. There on the window sill lay a pile of large shining chestnuts, which they were evidently holding against a time of scarcity, as the pile did not diminish while with a Mouse-The Wolf Spider and His I observed them. The nest was composed of cotton and wool which they filched from When Nature made the flying squirrel a bed in one of the chambers, and it was always a mystery how they got into the room



There are always gradations in nature, or in natural life; no very abrupt departin a species you will find hints and sugstudies of it in other allied species. I am not thinking of the law of evolution which carries any marked endowment or characteristic of a species in lessened force or completion to other surrounding species. the sky lark. The nightingale also finishes a series which starts with the hedge warpurple finch, etc.

mimicry of certain special forms and col- range them when they were given him." ors. The naturalists find in Java a spider I thought what different emotions this that exactly copies upon a leaf the form bird's reflected image awoke in its little and color of bird droppings. How many breast from those aroused in a male blue studies of honey gathering bees did nature | bird last summer that so disturbed the make before she achieved her masterpiece | sleep of my hired man in the early mornin this line in the honey bee of our hives? The skunk's peculiar weapon of defense is suggested by the mink and the weasel. Is not the beaver the head of the series of gnawers, the loon of divers, the condor of soarers? Always one species that go beyond any other. Look over a collection of African animals and see how high shouldered they are, how many hints or prophesies of the giraffe there are before the giraffe is reached. After nature had made the common turtle, of course she would not stop till she had made the box tortoise. In him the idea is fully realized. On the body of the porcupine the quills are detached and stuck into the flesh of its enemy on being touched; but nature has not stopped here. With the tail the animal strikes its quills into its assailant. Now, if some animal could be found that actually threw its quills, at a distance of several feet, the idea would be still further

The rattlesnake is not the only rattler. I have seen the black snake and the harmless little garter snake vibrate their tails when disturbed in precisely the same



MEADOW MOUSE ON THE AUTHOR'S HAND.

loud humming sound, which at once put me

near me. You could stand in the room in- other fields. The idea of the flying fish, the little plebeians—from his aristocratic lake, while the two sides as they diverged ging the toad along over the plowed Democrat.

a moment to the air, does not seem to walked up to the looking glass and it was have exhausted itself till we reach the not long before he made up his mind. He walking fish of tropical America, or the collected dead leaves, twigs, bits of paper tree-climbing fish of India. From the pro- and all sorts of stray bits and began a nest and birds, the step is not far to actual cage he would take bits of straw and ar-



manner. The blacksnake's tail was in ing. The bird with its mate had a nest in contact with a dry leaf and it gave forth a a box near by the house, and after the manner of the blue birds was very inquisitive and saucy about windows; one morning it chanced to discover its reflected image in the windows of the hired man's room. The shade, of some dark stuff, was down on the inside, which aided in making a kind of looking glass of the window. Instantly the bird began an assault upon his supposed rival in the window and made such a clattering that there was no more sleep inside that room. Morning after morning the bird kept this up till the tired plowman complained bitterly and declared his intention to kill the bird. In an unlucky moment I suggested that he leave the shade up and try the effect. He did so, and again as at first and be dragged away in The most profitable slot machines of this his morning sleep was thenceforth undis- that manner, but they did not. It would immediate period are the musical phono-

travels the other day that interested me. threatens, or if they simply retain the hold The owners have gone so far as to hire the A western correspondent writes me that He was on his travels also and we met in which they already have. I believe the famous Marine band to play many tunes their highest perfection in the song of the floor in front of the canary bird's cage. casting my fly there when I saw just fox-sparrow; our finches in that of the poor canary had not had any communion with his own kind for years. "He a delicate V shaped figure, the point of spider, probably the wolf spider, kill a salary of \$18 per week to play all of the The same thing may be observed in used often to watch the ugly sparrows— which reached about the middle of the young toad. When perceived he was drag- latest music to the phonograph.—Globe-

NOTES OF A NATURALIST side and observe the happy family through the fish that leaves the water and takes for gilded palace. I opened his cage and he faded out toward the shore. I saw the ground. The toad was of course small, ranged his fur and warmed himself. He ous fangs into it.

less lived all his life in the woods and was ous task for the little frog, too. strangely unsophisticated. How his little round eyes did shine and how he sniffed me to find out if I was more dangerous than I appeared to his sight.

After a while I put him down in the botrestless and evidently wanted to go about no longer and plunged boldly overboard, but he had either changed his mind or lost his reckoning, for he started back in the

of him he was a mere speck vanishing in

the shadows near the other shore. Later on I saw another mouse, while we A curious spectacle she presented as she rushed along, as if slit and torn into rags. the young could not keep their hold and were left in the weeds. We remained quiet and presently the mother came back the young would take hold of her phonograph arrangement. I encountered a little mouse in my their mother by instinct when danger owners. Music rolls are changed daily

point of this V was being slowly pushed vet a good deal larger than the spider. towards the opposite shore. I drew near The toad was alive, but died very soon afin my boat and beheld a little mouse swim- ter when the spider left him, alarmed no tree-climbing fish of India. From the protective coloring of certain insects, animals right off. Several days after in his lonely His little legs appeared like swiftly revolv- clod. There is a spider in South America ing wheels beneath him. As I came near | that kills small birds, and here is one at he dived under the water to escape me, but home that kills small toads. This wolf came up again like a cork and just as spider is a very savage creature. It spins quickly. It was laughable to see him re- no web by which to catch its game, but peatedly duck beneath the surface and prowls about like a wolf and pounces upon pop back again in a twinkling. He could its prey where it finds it. If you encounnot keep under water more than a second ter one in your walk or confront him with or two. Presently I reached him my oar a stick or the point of your cane, he is inwhen he ran up it and into the palm of my stantly up in an attitude of defense or will hand, where he sat for some time and ar- leap upon your stick and sink his poison-

did not show the slightest fear. It was If I have seen an insect kill a toad, I probably the first time he had ever shaken have seen the little piping frog in the hands with a human being. He was what woods swallow an insect, the pretty green we call a meadow mouse, but he had doubt- tree cricket; and it was a slow and labori-JOHN BORROUGHS.

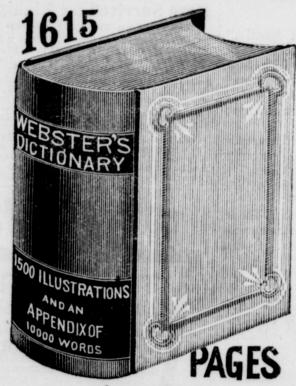
The Antiquity of the Slot Device.

There was a coin-in-the-slot machine in Alexandria, Egypt, a couple of thousand tom of the boat and resumed my fishing. years or so ago. It was invented by a But it was not long before he became very priest, and dispensed holy water automatically. A coin dropped through the hole his business. He would climb up to the tilted the nicely balanced lever and a spoonedge of the boat and peer down into the ful of liquid ran out into the palm of the water. Finally he could brook the delay hand. The slot idea is as old as the chris-

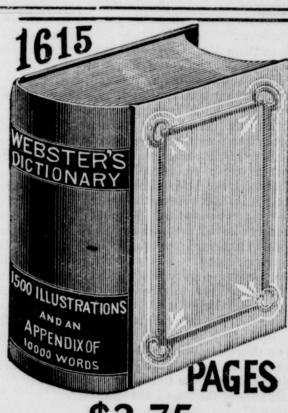
But what has puzzled inventors has been such an application of it as could not be direction he had come, and the last I saw beaten by bad boys. The earlier slot machines could be worked by buttons, by iron washers, by coins with strings attached and by iron rods. In one way and another the were at work in the fields that interested | contents were pumped out and the owner of me also. This one was our native white- the machine and the merchandise was none footed mouse. We disturbed the mother the richer. About four years ago the inwith her young in her nest and she rushed ventors, by zigzag tubes or by careful adout with her little ones clinging to her justment of weight, or by some other contrivance succeeded in getting slot machines which could not be deceived Her pace was so precipitate that two of by youthful ingenuity. Since then applications have poured in. Principal Examiner Aughinbaugh says that the patents on slot machines now number in the hundreds. looking for them. When she found one There are seven different patents for slot she seized it as a cat seizes her kitten and machines for taking photographs. In Engmade off with it. In a moment or two she | land a patent has been granted for a macame back and found the other one and chine which automatically weighs a person carried it away. I was curious to see if and announces the result audibly by a

be interesting to know if they seize hold of graphs. They are so many mints to the

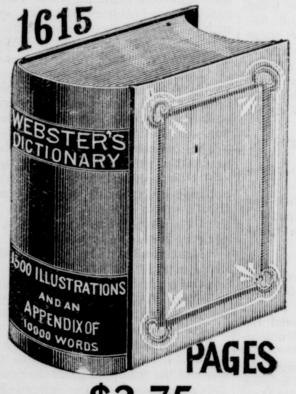
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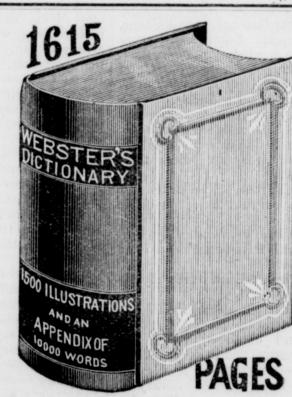
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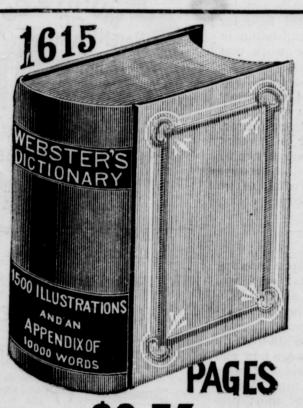


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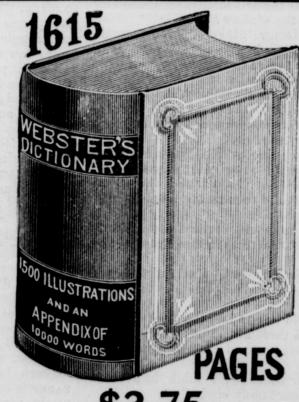


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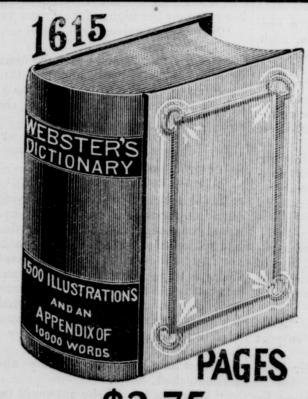
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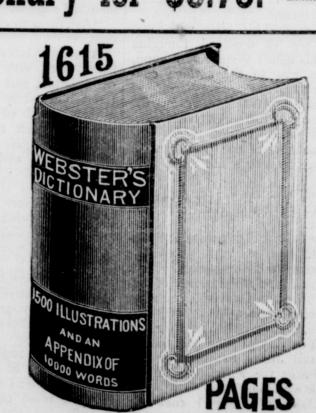
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