structural resemblance predicates a similar structural origin or some common progenitor. The popular mis apprehension that writers holding this view suppose that man is a lineal offshoot or child, through intermediate links, of our anthropoid apes is quite unjust to science. Our physical frame is most heterogeneously, so to speak, allied to the entire monkey race. We can claim, anatomically, no direct descent from any known species. As Urwart says :
"Some of the lower apes resemble man more than they do the anthropoid ones in the length of the arm and hand compared with that of the spine; while in the length of the leg without the foot, compared with that of the arm without the hand, he is equaled only by certain lemurs. The baboons (the lowest of the anthropoids) exceed all the higher apes in resemblance to man in the sigmoid curvature of the spine," and in many other particulars, unnecessary to mention here Some, indeed, of the New World monkeys approach man in some respects nearer than the Old, and again and again it has been shown that the child monkey is nearer the child man than the adult monkey is to the adult man-a significant divergence through age. In fact, the aggregate features of the human frame, when compared with their closest correspondences among the quadrumana, establish between man and these a network of intercrossed relationships.
Hence the proposition is, that man has issued from the group of the quadrumana genealogically at some far distant period, and descended from a creature Whtch resuited in a fine of descent of which man, as at present made, represented the climax. At the same time the close likeness of the anthropoid apes to man is very obvious, and some recent cases of hairy and tailed men might be regarded as reversions to a simian ancestry. However, the proposition cannot be, or has not been, absolutely proved. It rests upon an inherent probability based upon a study of evolution in other branches of animal life, and is bound up logically in what has been called the monistic view of creation viz., that a single impulse at a moment of time, however it may be regarded, has started a vital growth in nature, which, progressing and widening under the control of fixed laws, peopled the worid with all its past and present inhabitants without invoking at any mo ment, in the long train of sequences thus inaugurated any special act of creation. Naturally, man is but one, though the highest, of the occupants of this globe, and is subjected to the same law of origin.

> Was war ein Gott der nur von aussen stiese Im Kreis das All am Finger laufen liesse, Inm ziemt's die Welt in Inern zu bewegen, Natur in Sich, Sich in Natur zu hegen, So dass was in Ihm lebt und webt und ist, Nie Seine Kraft, nie Sein Geist vernist,

So far as regards man's physical characters, his psychic part is less easily to be imagined as derivative from the brutal and sensual disposition of the quadrumana As Hartmann says
' A great chasm between man and anthropoids is con stituted, as I believe, by the fact that the human race is capable of education, and is able to aequire the highest mental culture, while the most intelligent anthropoid can only receive a certain mechanical training."
The anthropoid apes are the gibbons, gorilla, orangoutang, and chimpanzee. Theorang-outangs, of which an adinirable group, mounted by Mr. Hornaday, the hunter and writer, is now in the American Museum of Natural History, and is shown in our artist's vivid drawing, inhabit the islands of Sumatra and Borneo. They live in the dense forests in the low, swampy districts, traveling with considerable speed through the summits of the trees, and avoiding the drier hill country. Their namesimply means woodman, indicative of their habits. They are hunted by the natives and sold to the Chinese. They inhabit the topmost parts of the trees, making rude and shallow cradles of leaves and twigs, in which they sleep, rising from their beds at 9 A.M. and retiring at 5 P.M. Except at night, they seldom descend to the ground. Their gait is awkward, and they display none of the agility of the chimpanzee or gibbon. Their long arins are possessed of great strength, and amid the durion trees, whose fruit they love, they can be seen performing feats requiring great muscular strength. As many as four species have been enumerated by some writers, and only one by others. Those figured in our illustration are not commonly, or not at all, seen in books. The fleshy disk in the male is a striking feature, and would seem to justify a specific distinction. They are slow, inert, and generally timid, but in close quarters, or thoroughly aroused, fight with ferocity.
The chimpanzee inhabits the west tropical coast of Africa, and is a species made familiar to our public by the general favorite, Crowley, under care of Mr. Conklin, at the Central Park Menagerie. This interesting fellow has divided with Jumbo the favors of popularity, and certainly with his antics and devices affords capital amusement to the sightseers who throng about his cage.
The disposition of the chimpanzee under captivity varies greatly, some being recorded as gentle and uniformly amiable, others uncertain, capricious, and .vio-
lent. Mr. Crowley's expression of face is very rueful at times, and changes from a laughable state of lugubrious contemplation to one of whimsical curiosity in the appendages and property of his visitors. With his keeper, Mr. Cooke, he seems generally mild and loving, but his malice breaks out occasionally against some teasing spectator, and he bounds and rages with impotent struggles, suggesting very unpleasant consequences if the offenders were within his reach. He has been taught to use a spoon, and sits in a most comic manner at a table with a gravity and absurd aspect of comfortable retirement that is irresistible.
The gorilla has been successfully kept in captivity in Berlin at the Aquarium, and gained an excellent name or friendliness and docility. A famous specimen kept there died of galloping consumption in 1877. The chimpanzee Urafuca was also an inmate of the Berlin Aquarium, and was greatly prized for her gentleness and general amiability. Of her death, Hartmann writes:
"She put her arms round Schopf's neck when he came, to visit her, looked at him placidly, kissed him three times, stretched out her hand to him, and died."
The real pathos of this incident, more than a hundred tales about monkey cleverness, would reconcile us to acknowledging a relationship with these remarkable creatures.

THE WATER TOWER AT VICTORIA, TEXAS.
We are indebted to Mr. R. W. Stayton, of Victoria,
same time as the collapse, all lie in one direction, and that coincident with the direction of compression in the standpipe. From our inspection, the tornado was not central over the standpipe, but far enough on one side to give it the full force of its gyration. This in our opinion precludes the possibility of a vacuum being the cause of the collapse.

The thinness of the iron, three-sixteenths inch, and its great proportional area exposed to the force of the wind, will no doubt readily account for its swaying, buckling, and final collapse, if we only take into $\mathrm{cr}^{2} \mathrm{a}^{-}$ sideration the force of the wind in pounds per * tare foot of exposed area.

Tornado winds blow at a rate of from 90 co 100 miles per hour, and exert a force of from 40 to 60 pounds per square foot of area.

The mean area exposed above the water line, all of only three-sixteenths inch iron, may safely be taken at 300 square feet, which at 40 pounds per foot would amount to 12,000 pounds, or 6 net tons pressure on the windward side, with no support on the inside; while the leeward side was supported in tension by the small partial vacuum of a lee wind, which is equal to. the slight vacuum or draught caused by blowing across an orifice, as the other parties claim. We are confident that lateral pressure caused the collapse of the standpipe.

## decision relating to patents.

U. S. Circuit Court.-District of Connecticut.

CELLULOID MANUFACTURING COMPANY $v$. COMSTOCK \& CHENEY COMPANY.


## THE WATER TOWER AT VICTORIA, TEXAS

place, together with the following interesting particulars of its partial collapse
" On the 20th of August this place was visited by a very severe cyclone, the wind reaching the velocity of about 80 miles per hour. We have a system of waterworks with a reservoir or standpipe 16 feet in diameter and 100 feet in height; the iron is one-half inch thick for the first 70 feet and three-sixteenths inch the remaining 30 feet. This pipe was erected with all the care and skill used in the construction of a steain boiler. During the storm this pipe was swayed to and fro, and the sides swerved in and out like some huge animal striving for breath, and finally collapsed as you see it in accompanying picture. The question among some of us is whether this collapse was induced or caused by the vibration or by the creation of a partial vacuum from the violent wind passing over the top exhausting the air within, having nothing within to withstand the outer pressure, there being only 70 feet of water in the pipe at the time. I claim that the collapse was caused by the wind creating a partial vacuum, and others claim that it was caused by vibration alone. The upper edge of pipe, just where the points of iron are riveted on, is re-enforced by a heavy angle iron. I send you three different views of the standpipe. "

In reply to our correspondent, we would say: The collapse of the standpipe seems to have been on the side from which the greatest pressure of wind occurred, as by inspection of the photograph the trees near the
hyatt patent-celluloid covering for piano
Shipman, J.
It has always been the law that a patentable invention, although new and useful, must be the result of something more than and different from mechanical skill.
The existence of novelty and utility in a patented thing has been potent in the determination of the question of its patentability. (McCormick v. Seymour, 2 Blatchf., 240 ; Furbush v. Cook, 2 Fisher, 288 ; Middleton Tool Co. v. Judd, 3 Fisher, 141.)
The decision in Hollister v. Benedict \& Burnham Manufacturing Company(113 U. S., 59; S. C., 5 Sup. Ct. Rep., 717) makes independent evidence of the existence of inventive skill, apart from inferences of such existence which may be drawn from novelty and utility, to be of greater importance than has been understood heretofore.
There was the creative faculty of invention in the abandonment of the ineffectual and mechanical attempt to make single celluloid keys in imitation of ivory single keys, and in the conception of the idea of covering a whole keyboard with a single celluloid sheet.
The patent in suit having been declared void for want of novelty by another court (Celluloid Manufacturing Company v. Tower, 26 Fed. Rep., 451), from which decision a notice of appeal to the Supreme Court had been given, a stay of the accounting was asked in this case; but as the facts in this case had features not brought out in the other case, held that there was no adequate reason for a stay of the accounting.
Motion for rehearing denied.

## A Sweet Posy.

Take two moss rosebuds, half open, a spray of rosemary, and half a dozen of the flower heads of lnvender, to which add a cluster or two of inignonette, three old clove carnations, a small bunch of white jasmine, and a few leaves of the sweet scented verbena (Aloysia cttriodora). If to the above you add a half opened old Provence or cabbage rose, so much the better; and the result will be a sweet posy that a duchess might like to have near her, and which, if tastefully put together, will delight the eyes as well as the nose. This sort of sweet posy was far more cowmon in the days of our great-grandmothers than now. You will notice how careful the late R. Caldecott was to give his sweetest of early eighteenth century maids a dainty little posy to sniff at as they cross their tiny feet and sit demurely in the fine old Chippendale chairs he must have liked, or he would not have drawn them so well.
Well made pot pourvi is delicious in winter, but during summer time every room in every house which has garden ought to be full of fresh flower fragrance, leaving the mummied odors for the winter of our discontent. You must not for a moment fancy that the above recipe for a sweet posy is a bit of literary labor out of my own head, so to say. The truth is, I found it written inside the cover of an old herbal, and to-day I tested its efficiency, and having found it not wanting, I offer it to every Lady Corisande who reads the Garden.
The capital stock of the American Bell Telephone Company is ten millions of dollars; and the capital stock of the various sub or license companies is fiftyfour millions of dollars, or in all sixty-four millions of dollars. The Bell stock sells in market at nearly double its face value. The aggregate of the license companies' stock sells for about one-half its face value.

