## THE COFFER GARDENS OF ARABIA.

Coffee is still cultivated in "Araby the blest," the coffee $\begin{aligned} & \text { down a thousand feet beneath; and then, jumping into a } \\ & \text { loaded car which comes swiftly by, we begin the descent. }\end{aligned}$ gardens there being on terraces which reach an elevation of The speed is great, but there is no fear-inspiring rush, no about 3,000 feet. The soil is kept moist by means of amal blur of objects hurtling past. We look out into the valley; artificial canals, which are made to irrigate the whole by made to irrigate the whole by
the water falling from the the water falling from the
upper to the lower terraces. upper to the lower terraces.
The trees here are planted so The trees here are planted so
close together that the thick close together that the thick
foliage shelters their roots from the tropical heat of the sun.
Our engraving represents
the famous coffee hills of the famous coffee hills of
Yemen, in Arabia, where Niebuhr states the berry was first cultirated after it was brought from Abyssinia by the Arabs, and where the ripened fruit, it is said, the ripened fruit, has flavor and fragrance which it is impossible to transplant. For ages before its use plant. For ages before its use
among the western nations, among the western nations,
coffee was raised on these coffee was raised on these
hills. The fruit begins to hills. The fruit begins to
ripen in February; and when the seeds are prepared, they are conveyed to the city of Beit al Fakih, where part goes to Mocha and the rest to European markets.
It has been computed that
the annual consumption of coffee is $1,000,000,000$ pounds: and that, with the exception of bread, sugar, and tea, there is no product of more general consumption than this invaluable bean. When we consider how universally coffee is used as an article of diet throughout Turkey, Egypt, Arabia, Per sia, and parts of India, besides the more moderate but equally general consumption in Europe and America, we shall find it difficult to overrate itsimportance, as vast multitudes of persons are engaged in its cultivation, transportation, and preparation for use in many quarters of the globe.

THE RALSTON INCLINED RAILWAY.
At the head of the Lycoming Creek valley, near Balston, in Pennaylvania, is the inclined railway to the McIntyre coal mines, which serves to carry the coal from the pits to the railrosd at the foot of the mountain. The lower terminusis

to a depression under the track inside the shed. I ce starter informs us that it is where the bumper goes in to let the car pase on, and just then, an empty car being hauled up from the siding, he pulls a signal wire communicating with the other end of the road. The stout wire cable in the middle of the track begins to move, and a heavy wedge-shaped mass of timber comes up from the cavity, broad end first, strikes the car with a shock that sends it some feet up the slope, and atops it on its return. It aaves the trouble of hooking and unhooking the cable, we are told, and is much safer. When it arrives at the bottom of the slope, a spring changes the gage of the wheels; it then runs along a narrow track into the hole, and the car passes over.
At the invitation of the starter, we enter the empty car The signal is given, and before our equilibrium is recovered from the jerk that nearly upsets us, we are rushing up the slope. The cable sliding over the rollers produces a whirring sound that makes our fierce motion seem all the fiercer, while the steepness of the descent and the absence of visible motive power combine to highten the effect of the ride. The mountain seems to grow beneath and above us, as the valley srpands and deepens below. We stop on the verge to look


THE COFFEE GARDENS OF ARABIA.
it rises slowly as we descend, and that is all. Notuntil we shoot through the shed and out upon the level, do we realiz that our motion has been particularly rapid or peculiar.

## THE BRIDAL VEIL, HAVANA GLEN, N. Y.

There are no portions of the country which offer greater attraction to the lover of the beautiful and the picturesque

han the so called "glens," situate near the towns of Wat kins and Havana, at the head of Seneca Lake. in New York State. These natural formations are cañons eroded from the rock by the action of water, and form a succession of ravines
and gorges which, from their great extent, produce scenes of remarkable variety and grandeur. At times the bare cliffi
down into the gorge and throws a network of beauty and grace, festooning the sides of precipitous rock.
Our engraving represents one of the most interesting spots in the Havana glen, from a point where the strange geopoint where the formation is best aplogical formation is best ap
parent. The rock is moderateparent. The rock is moderate-
ly ahaly, and has a atrongly ly shaly, and has a strongly
marked aystem of rectangumarked syatem of rectangu-
lar joints, dividing the cliffs into square towers and buttresses. When a portion of the precipice falls, it does not leave a jagged face but a mural surface, as smooth and even as a well built wall, giving the sides of the cañon an appearance of grand aimplicity. The eroding current follows the lines of division, zigzapging at right angles rather zagging at right angles rather than curving after the $f$ shion of ordinary streams.
It seems hardly credible that such a vast gorge as that represented could be cut by the slender stream which showers a mist of spray, like the film of a bridal veil, over its cliffs. But there is no sign of fissure at the bottom of the glen, and a deep pond is there, which must, at some time, have been beneath high falls, the constant action of which hewed for it a basin in the rock. This pool begins at the foreground of our engraving, from which anidea may be obtained of the great ravine which the constant abrasion of the cascade-continuing perhaps for ages-has gradually worn away. The record of its work is but faint, for the frost has destroyed the water marks by breaking up the shale; and although the solid rock above would retain the imprint, the fragments at the bottom of the gorge show that it eventually becomes undermined and, toppling over, buries the marks out of sight.

## THE HIXBON BEEHIVE.

Our engraving represents a new form of hive which, it is claimed, combines improved arrangements for permitting the examination of the bees and comb frames, and also for atilizing the animal heat of the insects for warming the honey and boxes. The construction is such that the objectionable space between the frames and sides of the hive,

which is winter affords paseage for currents of cold air and in summer becomes choked with wax, is avoided.
The partio of the floor, A, are at right angles, and incline upon and trom the center. In the removable sides, B, are openinge, one of which is shown closed by the door, C. The side, $D$, and that facing it are composed of narrow vertical boards, E , all of which. with the exception of the middle one, are detachable. Each board is as wide as the distance from center to center of the comb frames, $F$, and is provided with a rib, $G$, on the inside, to fit into the space between with a rib, $G$, on the inside, to fin in
said frames. By this means, a side is obtained which, while sufficiently light, is readily removable, piece by piece, when it is desired to inspect the interior of the hive. The sides are held together by the cap; H, and bars, I ; and the boards, E, are further secured by metal plates arranged in their upper extremities, not shown in the illustration. The comb frames, $F$, conform in shape to the angle of the floor, slightly above which they are supported by stud pins. By similar means they are separated ram each other, the interstices thus formed giving accese to the bees. J is the honey board, pled by the bees, so that it will be warmed in cold weather

