We are of those that think this influx of population will eventually be a benefit to this country, after the proper process are to be converted, by a free-trade policy, into consumers of in the entire range of natural objects. foreign goods, foreign governments may lay aside all fear. will be reduced to the European standard, and the inducement which is now its chief stimulus will be, in a great measure, removed.

mixed population we are acquiring will ultimately prove a of eyes. The protozoa and simplest animal forms seem to disaster. That it may be, at a future time, the cause of dis- have no eyes, and such is the case with the polypi, which sentions and bickerings, perhaps of more serious troubles, is throw out arms to catch their food. Animals of the tapepossible; but the forces are too nearly balanced to produce worm class also have no eyes, probably because they live in in a solution of albumen, dried, and thrown into the aniline permanent disruption. There are few nationalities that retain darkness, and find a plentiful supply of food in the bodies of solution. By this simple process globes are obtained more their national peculiarities through more than one or two their patrons. The radiata, or star fishes, have only very splendid even than by the use of the solution of gold or Casgenerations after their arrival in the United States; and the doubtful organs of vision. Most of the mollusca including sius purple. Germans, who, more than all others, do retain them, are a the oyster and the scallop, have very good organs of vision, peaceable, order-loving people, governed by the dictates of and nearly all animals of a higher order than this class are identical manner. reason rather than impulse. For the most part, they are edu-furnished with eyes. cated, industrious, and thrifty citizens, and may well retain. Some sea animals have eyes in their forehead; others have lucifer matches are colored by aniline. their harmless affection for the customs of the Father-Land. them in the brain. Some have plenty of eyes all along their and many kinds of industry waw largely upon this source for eyes. the skilled labor necessary to success.

migration, are well adapted to perform the ruder labor necessary to the construction of public works, and to supply the want of agricultural labor created by the recent war. If some of these are likely to prove hard to assimilate into an homogeneous whole, the result will be a quiet but sure extermination. They will share the fate of the native Indian, who, unwilling to accept civilization, has been gradually driven away by its advance.

The great rapidity with which immigrants are coming to this country is important in its bearings upon the great and ever-present labor question, and will render great caution necessary in the action of those who are endeavoring to advance wages and shorten hours of service.

SOMETHING ABOUT EYES.

expression more poetical than scientific, unless we accept the most predominant, indicates that mankind at large are not to belief that all living things, including corporations, have be credited with great strength of character. Buffon also doubt that certain individuals of the genus homo—animals, so, but if examined with a proper disposition of light will be supposed by many to have the exclusive monopoly of soulsreally possess any, though they have sharp eyes to the "main posed to the clear whiteness of the sclerotica appears so dark chance." But whether a soul looks out of an eye or not, it as to be mistaken for black. He further asserts that shades is physiologically and scientifically an intensely interesting of yellow, orange, blue, and gray are to be found in the same object. Dr. Dick has most justly remarked that "the eye is one of the nicest pieces of mechanism which the human understanding can contemplate."

opaque, and constitutes what in ordinary parlance is called | There are some eyes which are almost green, while the eyes "the white" of the eye. In front this coat has a circular opening, very much like that in the case of an old-fashioned bull's-eye watch. In this coat is set the cornea, and is continuous with the sclerotic coat, being attached to it at the edge cornea is the choroid coat, which immediately surrounds the of contraction or dilatation to adapt itself to varying intensi- tion will often mislead. ties of light. This curtain is always colored, and it gives rise to the popular classification of eyes with reference to color, by which they are said to be black, blue, gray, etc. This curtain is opaque, and its contractile power depends which aperture is what is called the pupil of the eye. An- with which we are acquainted. other set of muscular fibers, arranged transversely to the pupil enables the latter to become larger when more light is known that they are applicable to many other purposes. needed for distinct vision. The cornea projects somewhat; ectly underneath it at this point, lies a fluid called the aqueous humor, which is so inclosed by the surrounding tissues that it forms a concavo-convex lens of the form called in optical works a meniscus. Directly behind this lens there is or at the period of sizing. another body—the crystalline lens—which is also inclosed in the tissues so as to form a double convex lens, the front sur- to imitate fine porcelain, are colored by aniline. A design is face being less convex than the hindermost one. The mass printed on paper by means of an aniline lake, dissolved in a speeded down so that great tractive power is obtained. of the eye ball is filled with the vitreous humor. The optic nerve penetrates the eye-ball on the back side below albuminous paper. The color is taken up and fixed by the a point opposite the pupil, and passes obliquely upward, spreading out upon the posterior internal surface of the in a beautiful manner. choroid coat, and forming what is called the retina. The office of the lenses above described is to concentrate the light | aniline. in a proper manner upon the sensitive retina, from which the impression is transmitted to the brain by means of the optic rosaniline. nerve.

and pulley. This is the muscle which turns the eye obliquely toward the opposite shoulder, and is always used when we look at an object so placed. It passes through a of assimilation has been effected; and provided, always, a loop at the top of the socket, and is then attached to the eye proper policy on the part of the general Government provides ball, when this muscle contracts, the eyeball is rolled inward a home market for the increased production, consequent upon and forward. This muscle has been considered as one of the the increased number of producers. If, however, these people most striking evidences of design in creation to be met with

Volumes might be written upon the eye and the phenomena The stream of migration will be effectually retarded. Wages of vision, but what we have said will serve as a prelude to by steeping the wood in hot concentrated solutions of aniline some curious facts in regard to eyes of inferior animals as well as those of the human race.

Dr. H. Power, in a recent lecture before the Royal Institu-We do not share the fear entertained by some, that the tion in London, asserted that very few animals are destitute

Baer, an eminent German physician and oculist, says that Other elements of population, which are increasing by im-blue eyes are capable of sustaining a much longer and more violent tension than black ones, and that the strength and of liquid for the anatomical injection of capillaries and other duration of the sight depend upon the color of the eyes. We minute vessels. After being thus injected they may be indo not see any grounds for this statement, and therefore do definitely preserved in glycerin. not give it credence. The same author also remarks that black eyes are more subject to cataracts, which is perhaps date which must ever be memorable in the annals of techthe case, although we do not deem it as fully established, nology, According to this writer, not one in twenty possessing black eyes are satisfied with their color. This may be true in Germany but we hardly think it correct for the United States. Our readers will remember that the "Merican frau," who was so extremely fascinating at "Hans Breitmann's Barty" had the platinum group, and was engaged in the preparation of the learned Dr. Baer as to the German preference for eyes of that color.

Lavater esteemed blue eyes as a token of weakness and effeminacy of character, which, considered with reference to The eyes have been called "the windows of the soul," an Buffon's assertion, that blue and orange-colored eyes are the found to be yellow, deep orange, or brown, which being opeye; but that where blue is found it is invariably the predominant color. The blue tint is distributed over the iris in radial lines; while the orange is distributed about the pupil The ball of the eye consists of three coats, the outer one of in flakes. The blue, however, so far overpowers the orange of Albinos are either quite red or a bright orange color.

Lavater thought strength and manliness most frequently connected with brown eyes; but when the eyes incline to green, ardor, spirit, and courage were supposed to be indicat- the physician expressed the hope that the injury was not inof the circular opening above described. The cornea is as ed. It has been thought by many that dark-colored eyes be curable. Upon hearing this, this hero of science exclaimed: transparent as any substance known to mankind. Inside the long to those most subject to melancholy and choler. Be this as it may, there can be little doubt, that as an index to fluid called the vitreous humor, also a perfectly transparent | character the eyes are the most significant feature in the husubstance. The choroid coat has a circular opening in front, man countenance; but as their expression is liable to rapid to which is attached an annular curtain, which has the power and great change as the emotions change, a cursory examina-

NEW USES OF ANILINE.

Coal, a substance which we take up with tongs in order not upon a set of annular muscular fibers, arranged concentrical- to soil our fingers, is not only concentrated heat and light, ly around a circular aperture in the middle of the curtain, but is the producer of the most beautiful coloring substances

It has long been known that the aniline colors extracted

Since the year 1862 large quantities of aniline colors have 6th Avenue in this city. through the above described opening in the sclerotic coat, been employed by paper manufacturers for the coloring of making the ball of the eye more convex at that point. Dir | their paper pulp, or for the azuring of the surface of the paper | England, and we are informed, weighs about fifteen tuns. after its final manufacture.

> Aniline has here replaced ultramarine, metallic oxides, and dye woods. It is introduced in aqueous solution into the pulp

solution of a salt of aniline. This is then laid on damp albumen, and the whole design is reproduced on the paper | We think its operation would have been still more satisfac-

Typographical inks are made by dissolving the colors in The eye is moved in all directions by means of beautiful alcohol holding a resinous substance in solution, and which traction engine for moving heavy weights in the iron-works

manage to break away and get over here is greatly im- an exact counter type of the mechanical element—the rope when dry, is pulverized and mixed with varnish and with ground barytes, or white zinc. Instead of barytes or zinc, starch colored by aniline may be rubbed into the varnish.

The same aniline colors are utilized for the coloring of hanging papers, aquarelles, photographs, etc. Photographs obtained by this process are very remarkable for their transparency and delicacy of tint.

Refuse of wool, in the shape of dust, colored by aniline, is employed to manufacture the "velvet-coated" papers.

Lakes on wood, with splendid metallic luster, are obtained colors, drying rapidly in a current of heated air, and coating with a transparent varnish of copal dissolved in ether. The same operation applies to the coloring of straw hats, and to the production of artificial leaves.

Beads and false enamels are colored with aniline.

The colored globes used for public illuminations are also stained in the same way. For this purpose they are steeped

Artificial stones, mother-of-pearl, and ivory are treated in an

Soap, cold cream, pomatum, cosmetic powders, candles, and

The aniline blues and violets are at present of great benefit The Germans, also, bring with them great mechanical skill, sides or under their bellies, while others have them on the to the micrographer and anatomist for the dyeing of tissues which adds greatly to the resources of the country. Not a tips of their tails. The common snail has very good eyes on which they color diversely according to the nature of their few of the most valuable inventions are made by Germans, the tops of its horns, and the dragon-fly has more than 28,000 parts. For this purpose they have advantageously replaced carmine and ammonia, which often corroded and destroyed

The red, blue, and violet with collodion form the best kind

Aniline colors derived from coal were discovered in 1856, a

Accident to Professor Bunsen.

Professor Bunsen, of Heidelberg, recently met with a serious accident. He had received a large quantity of the metals of eyes of "himmel plue," which corroborates the statement of pure rhodium. He had precipitated a large quantity of the finely-divided metal, and had placed it in a water bath to dry. Some one carelessly turned off the water from under the bath, so that when Bunsen went alone into his laboratory at midnight, he found that the heat of the vessel had risen to three hundred degrees Fahrenheit, instead of two hundred and twelve degrees, as it would have stood if water remained in the bath. He approached the vessel, put down his light, and souls, which we are far from doing. We are even inclined to asserts that many eyes supposed to be black are not really put one finger in, to mark the condition of things. Suddenly there was a fearful explosion; both his eyes were severely burned; both his hands were torn into a mass of open wounds; but he had presence of mind not to drop the platinum capsule containing the rhodium, but put it back upon the furnace before he called for help.

The explosion and the call for assistance were fortunately heard by the servants, and he was immediately carried to his dwelling, which is in the same building with the laboratory. As soon as he had recovered from the unconsciousness followwhich is called the sclerotic coat. This coat is white and that such eyes appear entirely blue to ordinary observation, ing the accident, his first words were: "Let some one scrape up the rhodium from the floor, and save it."

It is known that some years ago Bunsen lost the use of one eve by a similar explosion: it was now feared that the remaining eye had been destroyed, but upon closer examination "Thank God! I can now ascertain what was the condition of the metal when it blew up."

But the injury to the noble man is very serious, and it will be a long time before he will be able to resume his scientific

At the same time that the above information reaches us, comes also the sad intelligence of the death of the wife of Professor Kirchoff, the colleague of Professor Bunsen, and his associate in the great discoveries of the spectroscope. Men who enrich our knowledge as much as these two have done, are sure of the sympathy of the whole world when sorrow overtakes them.—Post.

Steam Road Roller.

A trial of the new steam road roller, purchased by the circular set, pulling in all directions from the center of the from coal are used by the dyer, but it is much less generally Central Park Commissioners to be used on the roads under their charge was made June 4th at the corner of 115th street, and

> The machine was made by Averill and Porter, Rochester, It has four rollers, two front, and two back, so placed that the hinder ones cover the ground not rolled by the front oues.

Two of the rollers, perform the office of drivers; being turned by an endless chain and rag wheel; the others are The various kinds of shades for windows, lamps, etc., made | made to turn like the forewheels of a waggon to guide the machine. The engine runs with a quick stroke and is

The ground on which the machine was exhibited, was of a very friable kind, being composed mostly of a coarse sand. tory than it was, had the character of the ground been differ-Wafers, sand for drying ink, etc., are colored by means of ent. As it was, we believe all present were satisfied of the great efficiency of the machine, though we heard some im-Red and violet writing inks are prepared with salts of provements suggested. These were however made too hastily to be perhaps of much value.

We understand that this roller, has been used largely as a muscles attached to the outside of the ball, one of which is are precipitated by the addition of water. The precipitate, of London, and it seems admirably adapted to that purpose.