Perfection of the Human Frame. Beauty is a property of animal forms, that is, the provision which is made to adapt their appearance to the perception of the animals with which it converses. The bones are covered, the bowels concealed, the roughness of the muscles smoothed and softened, and over all is drawn an integument which answers the purpose of concealment. Could we view the mechanism of our bodies through the skin, it would excite our fears. Durst we make a single movement if we saw our blood circulating, the tendons pulling, the lungs blowing, the humors filtrating, and all the assemblage of fibres, valves, &c., which sustain an existence, so frail? A surprising perfection of the animal mass is the package, by means of which several operations are going on at the same time : yet the case containing the machinery is rolled and jolted about without any injury to the mechanism. The whole must, therefore, be firmly packed together. Examine the contents of the trunk of any large animal, the heart pumping at the centre at the rate of eighty strokes in a minute; one set of pipes carrying the stream away from, and another bringing the fluid back to it again; the lungs performing their elaborate office distending and contracting their many thousand vesicles, by a reciprocation which cannot cease for a moment; the stomach exercising its powerful chemistry; the bowels propelling the changed aliment; collecting from it as it proceeds, and transmitting to the blood an incessant supply of blood pursuing its course; the liver, the kidneys, &c., drawing off from it their proper secretions. The great art in packing, is to prevent one thing from hurting another; for this end, the

head, chest, and abdomen of an animal body is provided with membranous partitions which keep the parts separate. This most curious and important provision is visible in the entrails, which one would think were in danger of being injured by every jump or fall. The danger is, however, admirably warded whole process is knit to the edge of a broad flat membrane, called the mesentary, like the edge of a ruffle, and being four times as long entary sustains the small vessels, arteries, veins, &c., which lead from or to almost evbrane is strongly tied to the first three vertabrae of the loins PHYSICIAN.

New Light for Ships.

road locomotives as well as vessels at sea.

Horse Power Hoe.

land, for which the Royal Agricultural Society have awarded premiums. They are constructed upon the lever principle, each hoe working independently of the other, and algo wrong. Two men and two horses will hoe and horses being easy. Comparing it thereis not of so much consequence, as the circum- have happened to two fools."

stance of being able to get the work performed Winter Quarters of Miners in the Highwhere actually required.

Chinese Pecullarities.

A foreigner has just started a newspaper in the Chinese language. Whether it will succeed or no remains to be seen. It is a novel- its climate in that season. They at first silent- downy, and of a silvery hue. At the apex ty to the people. The only paper published ly pointed to the crosses, which in groups of or point of each leaf a small globule is susby the Chinese that can at all be depended two, three, and four. were to be seen in every upon is the Pekin Gazette. This is publish ed at irregular periods at the Capital, and thence distributed throughout the Empire. winter, for seven months, yet that the miners its driest state and under a burning sun, noth-It is a matter of great importance for the used to be kept there all the year. They ing but absolute observation can give a correct Mar.darins to secure an early reading of the said that the cold was intense, but that what idea of the beauty of that tree. Gazette, in order that they may be enabled to | the miners most dreaded was the merciless proceed in their official duties; for it generally seems that the only means by which on so suddenly that many miners had been the officers of government arrive at a know- overtaken by them, and had perished when each trunk a fibre or vine, which on reaching ledge of the will of their sovereign, is through not 150 yards from the hut. With these mothe medium of that Gazette.

carry the Gazette in different directions over creatures, must have been, when, groping athe Empire as soon as published. The same bout for their habitation, they found the viorider carries the Gazette from Pekin to any lence of the storm unabating and irresistable. one city, as for instance, Canton, performing | It was really melancholy to trace, or to tancy the distance on horseback by means of relays of horses at short distances. The distance from Pekin to Canton is performed in six Friends had huddled together and had thus days, riding incessantly day and night; it | died on the road. Others had strayed from the proves fatal to a great portion of the riders. | road, and from the scattered crosses they had As a general rule, no rider is able to make apparently died as they were searching for more than two trips, as he either dies or be- it. One group was really in a very singular comes perfectly disabled.

A high Mandarin who is under the neceszette, pays not far from \$20 per month for his paper, whereas those who are able to deprepared and assimilated nourishment; that | fer the perusal to a later date, pay proportionably less, say \$3 per month.

It is generally filled with court gossip and court ceremonies, alike insipid and uninstructive.

Heroism.

Mankind are not acquainted with their own nature. We have progressed in inventions and have advanced in the science of civil government, but are there not hearts still pining the road. The view from San Pedro Nolasin misery and bosoms heaving with distress.-Go to the bedside of the poor invalid and learn; dreadful scene which in my life I had ever off. The intestinal canal, throughout its a lesson of true heroism. Yes, 'tis there that witnessed.-Sir Francis Head's Journey the soul of man can drink in some feelings of across the Pampas. that fate which awaits us all. The excitement of battle may lead men to brave death as the mesentary itself, it is what a semp- | fiercefully, unthoughtfully, but what a herostress would call "gathered on" The mes- ism that is which can calmly look death in the face and smile at the grim monster as inch by inch he steals through the avenues of the sysery point of its coats and cavity, and this mem- | tem and breaks to pieces the " wheel of the cistern." This is heroism. But there is a nobler heroism still. The man who can dare death in the lazaar house of disease in ministering to the woes and sufferings of others, is a A gentlemen of the French Navy, named true hero-one of God's heroes. The man who M. Gaudin, has invented a light for the pur- | can dare to be alone in a cause he thinks right pose of preventing accidents at sea, which though all the world were against him, is a appears to be a most important and desirable true hero. The man who can die for the object and cannot but commend itself to the truth amid the jeers and scoffs of a multitude commercial and naval marine of all nations, is a true hero. The man who leaves his na-The apparatus consists of a reservoir of oxy- tive land for an uncertain home in another, or gen from which the gas flows under a pres- to teach others a more pure philosophy and once said in Hindostan to a young gipsey girl, tion for your patent within three months afsure of mercury and enters a flame produced religion with nothing but persecution as his you are a great thie?' The girl replied withby spirits or camphene, through a small aper- earthly portion, is a hero; and the man (and ture at the axis of the wick, and the light how many these are among us) who amid pothus oxygenated is thrown upon a piece of verty and lowliness of lot struggles day after magnesia fasted to a fine platina wire. The | day for his wife and little ones without scarce lamp in which these are placed has a reflec- ; a hope, or a thought beyond the narrow bounds tor and the whole is enclosed with apertures of his poverty stricken home, is also a hero for air and for safety. This light the inventor and a true hero. They who have braved the from the most rigid examination, but error althinks may be advantageously applied to rail. frowns of fortune or the bitter iron persecution of opinion, because of physical infirmity, table, and will stand criticism. Truth, like or what is more heart rending, the soul eating its author, is eternal, and will exist amidst canker of neglect, are truly heroes-more so, the wreck of matter and the crush of worlds, Garret & Son, Leiston Works, Suffolk, Engupon the breath of popular applause -Glen uge of lies. The more you examine truth

Scientific Coincidence.

though they look complicated, they really are the height of Mount Etna is 10,874 feet. The its premises, and is unworthy the attention of not so, but easily managed and not liable to Cutanians disappointed that their mountain an intelligent mind. A certain writer has had lost nearly 2000 feet, would not believe it. said with the utmost propriety; "He that nine acres per day, the work for both men In 1834 Sir John Herschell, who was not will not reason is a bigot; he that cannot aware of what Capt. Smith had done, deterfore with hand labor, the cost does not exceed mines the height by a careful barometrical is a slave." one half, while the work of the hoe in point measurement and found it 10,872¹/₂, a differof execution, is stated by our informant to be ence of 1¹/₂ feet. Herschell called this a "hapgreatly superior, as it can be regulated to any py accident," but Dr. Wollaston justly remar- Is owned in the United States, depth. The economy of its labor, however, ked "that it was an accident which would not 'Twas Franklin's hand that caught the horse

est Andes. could not help reflecting what a dreadful a- distance its leaves present the appearance of bode this must be in winter, and I inquired silver and sparkling with diamonds. On apof our leader and of the miners concerning proaching near the spectator finds the leaves direction; and they then told me, that although the mine is altogether inaccssible in lecting vapor from the atmosphere. Even in temporales, or storms of snow, which came numents before my eyes, it was really painful Express riders are in readiness at Pekin to to consider what the feeling of those wretched I could trace by the different groups of crosses, the fate of the different individuals. situation During a winter particularly severe, the miners provisions which consist of ity of securing an early perusal of the Ga- little else than hung beef, were gradually failing, when a party volunteered, to save themselves and the rest, that they would endeavor to get over the snow into the valley of the Maypo, and return, if possible with food. They had scarcely left the hut when a storm came on and they perished. The crosses are exactly where the bodies were found. They were all off the road. Two had died close to gether; one was about ten yards off, and one had climbed to the top of a large loose fragment of rock, evidently to look for the hut on co, taking all together, is certainly the most

Improvement of the Gipsles.

A society has been formed in England for the purpose of attempting the moral and religious improvement of the Gipsies. At a bility of your machine being a perpetual momeeting of the society not long since, in tion, but the operation will satisfy yourselt. Brighton, the Rev. Mr. Crabb addressed the society, and stated these facts.

He said that in England, the origin of the Gipsies was enveloped in darkness, but that profitable way would be such a plan as you it was known that they appeared in Switzer. suggest. land in 1418-from which country, they had however, almost entirely fied during the reign tell how many modifications of the endless of Napoleon, who ordered them all to be taken into the army. Mr. Crabb denied their Patent Office will secure the invention for Egyptian origin, and traced them from the Sudhas in Hindostan, both in their physical other person for the same thing. In that configuration and dialect, and related as an ; case the Commissioner of Patents will inform instance of the latter, that Lord Teignmouth ? you and you will have to make the applicaout a moments hesitation, 'No, sir, I am not \$10 more when you make application for a a thief, but I live by fortune telling,'

Truth.

Truth courts investigation, but error shrinks from scrutiny. Truth fears no evils, ways fears the consequence. Truth is immulike gold the brighter it shines. Truth is never tarnished by inspection, but discovers the more splendor. Any system which In 1815 Captain Smith ascertained that shrinks from scrutiny discovers corruption in reason is a fool; and he that dares not reason

"The steed called lightning (says the Fates)

'Twas harnessed by Professor Morse."

Trees At the Cape of Good Hope a tree of peculi-As it was in the middle of the summer, I ar beauty grows, called the silver tree. At a pended; and upon shaking the tree the drops tall off but are immediately renewed by col-

The Banyan tree of India is, however, the greatest natural wonder of the arborial world. -Originally a single trunk, there falls from the ground takes root and forms a new trunk. This being continued as fast as the trunks become sufficiently strong to send off their branches, the trees eventually extend over several acres. That near Bombay is large enough to shelter ten thousand troops.

TO CORRESPONDENTS.

"H. S. of Ohio."-We are not in posses. sion of the specification of Mr. Wall's Patent and have not yet ascertained whether the electric process toughens or hardens. When we get out the specification, it will be noticed if of sufficient importance. Mr. Wallresides East India Road, Middlesex county, England.

" L. F. M. of Ala."-We have sent the Constitution of the New York Mechanics Institute. The wind ship was not flattered as you would observe by us. It was not new either, but these things do good for all

."-In some future "R. W. P. of number we shall publish receipts for tempering tools of steel. There are a great variety of plans and opinions on tempering. The tempering of silversmith's rollers, is kept a preity close secret.

"M. O. P. of N. H."-We have seen a great number of perpetual motions, but there never has nor never will be one made to be of any service as a propelling power. There is no such a thing in the Science of Meshanics as a power creating a power superior to itself. We would sincerely recommend all mechanics to study the first principles, you appear to have a mind ingenious and inventive, only direct it right. Had we room in our columns we might explain the impossi-

"E. S. E. of N. Y."-There is no appararatus with which we are acquainted that is used for drying tan bark for fuel. The only

"D. E S. of Mass."-It is not possible to chain wheel there is. A Caveat filed in the one year, unless application is made by some ter said notice. A Caveat costs \$20 and then patent.

"E. B. of Conn "-We are much obliged to you for the promptness of your answer and the information contained in your letter.

"W. E. B. of Pa."-By your arrangement of the windlass, &c., you may expect that no gain of power can be the result. If you examine any treatise on the wheel and axle you will be satisfied of this Why not use a Steam Engine for drawing up the ore. It would be as cheap as manual labor, or why not apply horse power. There is as little friction in the straps as in cog-wheels. Do not go to any expense in patenting any machine until it is fully tested. It is best to be careful in this respect. Much obliged to you for the information sent.

"F. H. S. of Md."-We hope to receive a notice soon of a more full description of your valuable invention.

"N. M. of Mass."-In eight days after we get your letter the information will be received. Be particular about the principle, and state it clearly in your next letter, as a great many patents have been taken out for stoves. "R. T. of Ky."-The French mode of pre-