Electric Telegraph Experiments. VERMONT MEDICAL COLLEGE, Woodstock, March 27, 1848.

To the Editor of the Sci. American. contained the great discovery of the use of otten repeated. Re-amalgamation must be ne- mould is full, the metal is allowed to remain half a million tons. For all the purposes water alone in Grove's Battery, instead of sulphuric acid and water, as the motive power. The least acquaintance with this battery or with any of the common forms, must convince you and all, that the zinc must be acted on chemically by means of an acid. If that dropathic system" will require it very much acid is not mingled with the water which oftener, there can be no doubt. surrounds the zinc, it must be obtained from some other source, and in the case alluded to, cost of sustaining the batteries on the "hy. | pends conjointly on the diameter and the was obtained from the passing of the nitric dropathic system" will be at least five times thickness; a small bell or a thick bell giving acid through the porous cup to the zinc It as great as by the solution just mentioned. has long been known that nitric acid is an active exciter of electricity on the zinc. As soon as the nitric acid should pass through to system" with no invidious meaning, but as a the zinc in sufficient quantity, the action happy expression, already made public, of the would begin, and be increased with the in- meaning to be conveyed. I rejoice in any im- be rigidly attained by casting only, the bells crease, and be diminished with the diminution, of the acid. But, the mercury on the amalgamated zincwould be attacked, and the | facilitate communication between the differ. | sharp-pointed hammer: reducing the diameplates would ere long need re-amalgamation. ent parts of our country in a cheaper as well ter at the lower edge when the tone is too Well known facts and principles lead to these as expeditious manner. Honor to whom ho- low, and reducing the thickness at the part necessary conclusions.

As I had just received a new Grove's Battery of eighteen cups, I determined to try the experiment, and test the ' hydropathic' disco- bells differs in no wise from the processes very. The battery was new and clean and in relating to small custings in metal generally; fine state. I charged the zinc plates with but for church bells the case is otherwise. arrived from Gottenburg, consisting of some pure water and put strong nitric acid in the | The production of a sonorous quality, in adporous cups. Aided by an assistant, this fil- dition to many of those which pertain to all ling was done simultaneously and rapidly -The following were the results :

poles into water, there was indication of only | must have a furnace which will contain mathe slightest decomposition of water.

soft iron. Hence, such a battery of even 18 lever, while three or four cups with the ordinary exciting dilated acid is amply sufficient

3. Waiting a few moments I tried these same experiments again, and found the power of the battery had somewhat increased .-as much. Hence the nitric acid had passed the zinc.

4. Repeating the same experiment at the ry had greatly increased, and both the results, already mentioned, were far more manifest.

As I have repeatedly used the same size of Grove's Battery charged in the common way the two.

5. In about an hour and half the "hydropathic system," had attained its maximum efficiency, and I repeated the above experiments laid on. When all is well dried, the "shell," before the medical class, and added the fol- is lifted off from the "model," and the model lowing. A large dancing iron in the proper helix was suspended or made to dance in the If we suppose the core the model, and the usual manner. A rod of eight inches length shell to be three hemispherical cups placed and nearly one fourth of an inch in diameter one within another, and the middle one to be was made to play beautifully. Dutch gold leaf removed, it will serve to illustrate how a va was finely deflorated, and both silver leaf and | cant space comes to be formed between the gold leaf burned distinctly.

closing it, the usual effervescence took place | the internal form to the bell, and the interior around the platinized platina of the porous of the shell the external form, the object cup. Had the porous cup been removed and of the whole arrangement will be very clearly the nitric acid been mingled with the water | seen. about the zinc, and the battery thus have been changed into the form actually of Smea's battery, the same results would doubtless have taken place, only with far more energy.

er of the battery was greatly diminished. The is cut in the loam from the furnace to an nitric acid in the porous cup was weaker, and orifice communicating with the vacant space the nitrate of mercury and of zinc in the wa- i in the mould; and two other orifices are ter had lessened its specific gravity compared left for the escape of air as the melted metal with that of the nitric acid so that the nitric | enters. Meanwhile the metal is being melted acid would pass in much less quanti y to the | in the furnace. The tin employed is in the zinc. After several hours more the action nearly ceased, and the plates were taken from ; ing and other tragments. These are melted the solution and the remaining weak nitric in a reverbatory furnace, by the heat of billets acid was preserved.

ed that the mercury had in part been removed | nace is knocked or dug away, a narrow jet | wrought iron.

from them, and especially where the porous instantly pours out from the opening, and a cups had been in contact with the zinc plates stream of liquid fire (for so it seems to the or nearer to them. The "used up" nitric acid eye) runs along the channel in the loam, and showed that the porous cups must be refilled flows into the mould, bubbling and hissing will produce on an average five thousand In your valuable paper of March 4th, is with that powerful acid, and this process be and giving forth greenish sparks. When the cessary; how often, it is not easy to deter. till perfectly cool; the loam is then removed connected with the manufacture of one ton of mine from these experiments. When the the external "shell" lifted or cut from the pig-iron, taking it in round numbers, there zinc is used with dilute sulphuric acid satu- bell, the bell lifted off the core, and the core rated with sulphate of soda, re-amalgamation pulled down. If the bell be very large, it of calcined iron-stone, and 10 cwt., of lime. is not necessary in two months; that this "hy-

C. DEWEY. Your obd't.

provement in science and art, especially in (say a set to form chimes) are attained by that which will disseminate knowledge and chipping away some of the metal with a C. D. nor is due.

Bell Casting.

The casting of common house bells or handlarge castings in mixed metal, gives occasion is free from duty when imported into this connection with our colleries and ironstone for many scrupulous arrangements in the 1. On bringing the copper wires from the management of the foundry. A bell foundry 'ny tons of metal, for the whole of the casting 2. On attaching the poles to an electro-mag- for one bell is made at once. The arrangenetic apparatus, there was not the least deve- ments as to the central core or mould for lopement of magnetism at either end of the 'casting a large bell are thus made :- Contiguous to the furnace is a pit deeper than the cups would not move the common Telegraph | height of the bell. In the centre of this pit is built up a rough mass of brick work, somewhat smaller than the interior of the bell; and this is coated externally with a mixture of earth and horse dung, applied in successive, of the potatoes into small pieces and drying layers, and worked smooth by guages, until them. We believe that this is a perfect nov-The decomposition and magnetiam were thrice the exterior of the core presents exactly the same size and shape as the *interior* of the in some quantity through the porous cup to intended bell. When the prepared core is thoroughly dried by means of fires, a second coating of the same composition is laid on of end of half an hour, the activity of the batte- the same thickness as the intended bell; this coating, which is called the "model," is formed of earth and hair, and is, like the former, brought to a very smooth and correct surface by guages, the exact counterpart of the with twelve of water to one of sulphuric acid exterior of the bell. A third coating is then for the zinc and ordinary nitric for the porous applied, called the "shell," much thicker the hundred at least of starch, nearly thirty cup, it is evident that the power of the hy- than the others, and formed ef a somewhat of a soluble fibrine of demulcent anti scorbudropathic solution was far the less efficient of different composition. A little tan dust is lent quality, five of a vegetable albumen of sprinkled on the first coating, or core, before | the nature somewhat of the white of an egg, the second, or model is applied and also op the latter before the outer coating or shell is is picked or cut off from the core piecemeal. core and the shell: and when we further bear 6. When the circuit had been broken, on in mind that the exterior of the core gives

This internal cavity of the mould, between the core and the shell, is that into which the 7. In two or three hours afterwards the pow- the top of the mould; a shallow channel form of blocks, the copper is old ship-sheath of wood. All being ready, the earth which 8. An examination of the zinc plates show- | stops an orifice in the lower part of the fur-

alone occupies the pit; but if of smaller size such as from three or four to ten or twelve Lanarkshire miners and colliers, the labor of hundred weights, six or eight may be cast in one man, supposing him to work the whole, In conclusion I venture to infer, that the one pit at one time. The tone of a bell derelatively, a more acute tone than one which is either larger or thinner. Hence the foun-P. S. I have used the phrase "hydropathic der regulates the diameter and thickness according to the musical pitch of the tone which the bell is to yield; but as this cannot where the hammer strikes when the tone is and fifty thousand. too acute.

Preserved Potatoes.

An importation of considerable novelty and interest has reently taken place by a vessel casks of potatoes, in a state of preservation. It is known that this description of vegetable country in a raw state, the privilege extending to all foreign countries, and for a definite period, without reference to the mode of introduction, and the existing navigation laws, and this parcel was entered as being creasing every day. The quantity of pig-iron free of duty. On examination, however, by made has doubled within the last seven years the officers of the revenue, the contents were found to have undergone a process of preserving by which they were considered to become liable to an ad valorem duty of ten per cent, as manufactured goods, the process which they had undergone being the division elty with respect to the importation of the vegetable from foreign countries.

A patent is in existence for a preserved preparation of the potato in this country, which is supplied to the East India Company and Emigrants, and of which an analysis is ble efforts have been made for the elevation given by Dr. Ure, the eminent professor of of this portion of British subjects, but their analytical chemistry, to the effect that it is found by chemical analysis to contain the whole nutritious properties of that root in a pure concentrated state, also sixty parts in and five of a lubricating gum—that the fibrine and albumen render it more light of diges- just publishing their inventions in the Sciention, and the gam more demulcent to the stomack than wheat flour, with which also it | last improvement will be \$8. It will appear may be regarded nearly equally nutritions, and more so than peas, beans, sago, or arrowroot.

It was a matter of some doubt whether this importation was in any way affected by the existing patent alluded to, but we believe it has been decided in the negative, and as of an entirely different character, although similarly designated. Notwithstanding that the importation is a novel one it is understood to a caveat. be a common preparation of the vegetable in Sweden, from which country this supply took gain power by a larger fly. We say you canplace, and to have been so tor a long period, not, you are, however, welcome to your opinand that the only process in manufacture | ion, and would recommend your flys as an metal is to be poured. The casting pit is fil- to which the potatoes have been subjected is led up with loam or earth, to the level of that of being dried and forced through a sieve or colander, which, however, is considered to render them liable to the ad valorem duty happy to give advice, but scarcely know what before mentioned - London Mining Jour.

Strength of Cordage.

The strength of ropes and cords depends on the fineness of the strands. Damp cord-lings, we are afraid is not attributed to the age is stronger than dry. Silk cords have true cause, as some of the softest castings in three times the strength of those of flax of the world are made from the coke of bitumithe same diameter, and a remarkable increase nous coal. Copperas is the sulphate of iron. of strength is obtained by gluing the threads Sulphur is found but in small proportions in together. A hempen cord, the threads of any iron. It may be phosphate that is the which are glued, is stronger than the best cause of the hardness. See that you are not

The Mining Population of Scotland. There are now about one hundred blast furnaces at work in Scotland, each of which tons of pig-iron a year, or, altogether, about will be required about 3 tons of coal, 35 cwt., According to the restricted "darg" of the will be equal to the produce of raw material for 50 tons of pig-iron a year. The manufacture of pig-iron in Scotland will therefore give employment to 10,000 colliers and miners. The manufacture of malleable iron in Scotland will be somewhere about 80,000 tons per annum, will give employment to 1000 colliers, each ton requiring about four tons of raw coal for its manufacture Altogether this will give employment to 11,000 colliers and miners in the manufacture of iron alone in Scotand. For each man employed, the population may be estimated at four which will give a population of between forty

For supplying the consumption of Glasgow 3000 colliers are required, and taking the whole of Scotland, the number of colliers and miners absolutely working will be about 30,000, and the population about 120,000. This is altogether independent of oncostmen, laborers, mechanics, and others employed in mines, which will give at least one-half more. The population, therefore, belonging to their coal and ironstone working, cannot be estimated at less than 180,000 and is rapidly inwhich must have added to the mining population above 20,000.

Previous to the year 1775, colliers were treated as slaves belonging to the property where they labored. The British parliament that year passed an act which "declared that colliers and salters were to be no longer transferrable with the collieries and salt works.' but upon certain conditions which were then deemed 'reasonable,' they were gradually emancipated and set free, and others prevented from coming into such a state of servitude." Since that time, many laudicondition still demands the attention of the friends of degraded humanity.

TO CORRESPONDENTS.

"J. B. of O."-Yes. You seem to appreciate the benefit of publishing engravings of your inventions in the Scientific American.-We could mention hundreds who have made extensive sales and realized large profits by tific American. The cost of a cut for your in two or three weeks.

"J. C. Jr. of N. Y."-We feel under obligation to you for the fine list of subscribers with which you favored us last week, and we hope we shall have occasion to tender our thanks to many others for like favors. "M. S. of Vt."-See fourth page.

"R. M. J. of Mass."-Get an engraving of your machine, it will only cost \$5; better than

"S. R of N. Y."-You say that you can easy way to transfer a four horse power en gine, to one of 20 horse power.

"A. N. O. of R. I."-We really would be to say. The name given was the signature and we thought it was also the name proper.

"A. H. of Ky."-The hardness of the castchilling too rapidly by damp sand. We know

of no process to purify the coke, or the impurity in the melting. We can only recommend rapid melting and extreme heat, so that as B little carbon as possible may be combined P with the iron. It is the excess of carbon that makes iron hard, the less carbon it has B the softer it will be.

"J. M. H. of Ohio."-Steel bells will not answer for those of large calibre. You can get an eccentric chuck by writing to Joseph Hydes Starbuck's Foundry, Troy, New York. We do not know their price. The price of Perkin's lathe you will find out by letter to Perkins, Hudson, as we cannot say whether it is five or six hundred dollars.

"G. T. of Oswego "-Your capstan is new in combination .- There is no other of like construction so far as we are aware of, in use. It is good.

"C. L. of Rockville -The law allows two years. Many speak well of your windlass. We have not been able to answer you by mail.

"B. B. of Me."-Much obliged to you for your interest in the Scientific. We can make a wood cut from a good drawing, equally as well as with the model, though not a perspective from a sectional.

"C. B. W. of Mass."-Gov. Briggs was not very correct in his opinion. According to his views, any person who has seen a drawing or model of another person's invention can take out a patent for the same. Get up your model as soon as possible and make the drawing as directed, we will do the business, at a very reasonable price but cannot tell how much till we have some more information of the work to be done. Some specifications are easy and others difficult. 30 dollars is the patent office fee. It would be six months at least before your application would be examined in due order. We do not think such a cutting wheel is in use or has been used.

" J. C. of Mass."-Your model is received We shall write in a few days.

"E. C. of Ill."-Your communication has just been received.

Spirit Gas.

We frequently hear of accidents from explosions of spirit gas. This is a composition of rectified alcohol and turpentine. It should never be used in families as it is very explosive. Camphene is not explosive and should always be used in preference to what is called composition.

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A short time ago the wood work of Gov. Porter's extensive anthracite Furnace at Harrisburg, took fire from the slag running out from the stack against the corner of the building, and in about two hours all the combustible materials of the furnace were entirely destroyed, and the engine, pumps, blowing cylinders, and other fixtures much injured.

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BOORHEAD'S GRADUATED MAGNET-IC MACHINES.
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J. O. FAY has just received from the manufactory of J. G. Meffett, a full aud most splendid assort-ment of Solar Lamps for Parlors, warianted periect; unequalled in style and beauty of finish-new pat-terns. the handsomest ever offered for sale, and the cheapest Lamp Store in New York m25 2m^{*}

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A RE manufacturing and have alwars on hand, at full assortment of articles in their line, of the following description. which they will sell at whole-sale or retail at low prices, forcash : Solar Lamps--Gilt, Bronze ! and Silvered, in great resider. variety. Suspending Solar Lamps, gilt and bronzed. Bracket do do do do do do d o do do Side do Solar Chandeliers, do 2, 34 and

lights. Camphene Suspending Lamps, gilt and bronzed. do Bracket do do do Chandeliers do do 2, 3, 4 an

Girandoles—Gilt, silvered and bronzed, various pats.