ON MINERAL VEINS

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pushed auto, as they must as up one of the second mathematical auto, as they must as up one of small scenes in the manner suggested by the author. Professor Hughes mentioned cases in which protoburnoes had held rock faces apart during movements as c_{-} go on a small scale, where were tracket on the face of a Cambrian reck had given rise to a kind of crange and tail during movements producing alchements along the bed on which they occurred. On a large scale, as c_{-} g in the Via Mala in the Alp, wave faces might be seen running down the sele of the precipes and obviously, when displacement took place along such cracks, the two sides could not be in contact hough theorem and therational of various mineral above the tide been ground down, forming what he called "faint brows. The thought the manner of occurrence and durations of various mineral above the tide system with of the styrat being outwards from the walls, and each invest layer a waving the improve of that on which it is an above.

LEVENHILL ON ULTRANETTONIAN PLANETS —After a long continued labor Levertier has at length, with the theory of Neptaneadal Uranus, completed the study of all the members of the solar system. His chief object was to de-cide the question whether there is an ultra Neptanian planet, which might be detected, as Neptanewas, by the perturbations preduced by it on planets already known. The curdulations the entry of the bady outside of Neptane. Now that there is nothing to be hoped for in the way of dissovery at the outer homolaries of the solar system, we present Leverrer will devide him-self to finding the intra-Mercurial planet or planets, in whose existence he still has unshaken hilef.

As A MOSPHERIC LECONTIVE ENGINE — An atmospheric Leconotive engine, designal by Major Beammont, Royal Rutineses, bas been an trial at Woolwich aremal for some time past, and appearies ideely to be attended with soccess. The apparities designed of a large number of changete cyclinetes about 70 in all public to gether in an obligue stack, each cylinder being some four inches in diameter and about sit for in length. Mounted on an ordinary track, and by the ordinary crank arrangement, the compression is stored in the cylinder has been found to exercise power sufficient to draw a hight had for a considerable distance, and the ordinary explanable is the requiring the requ

to be replonished. This Limits MONUMENT. The sum of 140, 000 marks (about \$35,000) having been collected for the Loby momental, the commutes has de-cided to et us. The subscription list. A discus-sion about the sitie of the projected momentum has arisen between the ryal committees of this-son and Munich, the former claiming the stramo on the ground that from their university Linbig's family first assued to the world) the latter because their city was subsequently the some of his h-hors. It has been resolved that both torus shall have a similar momental and that these shall have a similar momental and that these shall have a i in bronne, the some collected suf-firing to accer. the expanse of both.

ELECTRIC CLOCKS 19 PARTS.—For making the four-observation timeskoppers which the city of Parts intends to erect, 10 names have already been entered. The competition will close on Systember 2010, 1877. This four clocks mailly selected will be beight by the city of Paris at C200 each. Three primes, £120, £30, and £40, will be allowed respectively in addition for the three best clocks.

<page-header><page-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text> STEEL EXPERIMENTS IN RUSSIA A English paper says that it is proverbial in Stellich and other centers of stell production in and unanipulation, that much remains to be learned in relation to that material. There are, in fact, phenomena and psculiarities observable should be used to be a second to be an englished by a manufactor of the second part of the phenomena and psculiarities observable between the stell material. There are, in fact, phenomena and psculiarities observable should be used by a manufactor of the second par-amer could be a manufactor of the second par-amer second the second para-terior of the second paraterior on steed. Mr. Chronof, has published lately, at 8t Foren-bular starts that " of steel mellesi in a cruci-ble is constantly kept in violent aquitation while a startic start when the cold ingoing paralition of the duber hand, the steel is allowed to cold constant of large, well-developed crystals. The paraterior is notion - these the cold ingoing and in the duber thand, the steel is allowed to cold constant of large, well-developed crystals. The second there hand, the steel is allowed to cold and the steel relation of funds. It is probable to the duber could be specific mellation while the induction for they know that if they are not be kept in perfect apart. The antior of the lange counteries too, that in the course of the lange counteries too, that in the course of the lange counteries too, that in the course of the lange counteries too, that in the course of the lange counteries too the steel, the atterior of the lange counteries too the steel where a section and the lange counter too the steel where a section and the lange counteries too the steel where a secti

Electric Lighters, — Displer's Journal ways that a new electry magnetic lighting matriment has recently been described by M. Hess. It conside of a chronic acid element, a small in-duction coil, and a vessel containing a mixture of alcohol and support of the element in contact with the head, and the seal induction space undawn instantaneously the vapors of ether lib-erated from a spenge, which has been dipped in the mixture of alcohol and thee ther. According to the investor, this maturanta the advan-tage of lasting a long time without requiring any attention.

A Powentze New Merat.—Prof. G. A. Ko-nig, of the University of Teamgdyania, and nonnece that he has reason to suspect the exist-ence of a new metallic element in a numeral re-working whorkmite, occurring at Magnet Cove, Arsumas. In an examination of this mineral, he obtained, instead of titanic seril, a white oxide which differed very decidedly from the former. He is disposed to regard this ci-cumstance as positing most probably to the ex-tension of a new metal in the mineral in ques-tion.

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With horse - Revel Press.
NEW ARRIAL MACHEN, - Kxperiments were made recently at Chatham, on the Great Lines, with an invention of Captain M. T. Sale, H. E. who is Scretary of the Royal Engineer Committee. The invention is a new aerial machine, to be used for discovering the position, etc., of an energy scamp at night. The machine consists of a light, framework covered with here the machine is kept affaired. When at a project high a parachite provided with airs and thus the machine is kept affaired. When at a project hight a parachite provided with inrelative and the ince balls are discharged, and thus the balls are discharged, and thus are balls are discharged, and thus were made in the presence of Major A considerative of the bala weather which prevailed and the first encourse of the position of an army would be shown. The trials proved very satisfactory, in spite of the bala weather which prevailed; and the first encourse of Major Majury, instructor in field fortilications, and many other angliner officers.

singlineer officers. Loab ron A MAN.—A curious set of experi-ments made in France developed some interest-ing facts in regard to the greatest average load for a man of great strength to corry a short dis-tance. This was found to be 219 pounds; all a man can carry habitually, as for example, a sol-diar his baspeck, walking on level ground; is 122 pounds, ian extreme load it would seem, or he can carry an aggregate of 1,515 pounds over 3,290 best as a day's work, under like circumstances. If he ascent ladders or tains, so the load carriers, then he can carry but [2] pounds continuously, and his day's work cannot exceed 1,232 poinds rised 3,300 feet high. With regard to the offer and the velocity with which a man can preduce by pulling or pussing with his arms, it has been found by these experiments that, under the nost forceable circumstances, and for con-tinous work, an effect cannot be gained ex-ceeding from 264 to 321 pounds raised from 1,5 to 1,2 feet per second, or about one-eighth-horse power.

To 1.2 test per second, or about one-eighth-horse power. FUUD CONTENSION STEEL.—The Polytochsic Receive notes that, speaking at the Iron and Steel Institute on the application of the hy-drambe power in forging. Sir Joseph Whitworth stated that his in his recently completed two two across sharts for the hydraflo, 283 fort in length, 17 mehrs in diamoter, and east with a mine inch hole through them. These shafts were make of compressed steel and weighted 63 rooms, maked of 97 tons, it made of room - are-duction permitted by the great strength of the compressed steel. He further stated that on applying the hydrafle pressure, a solumn of institute in exclusion instants in the steer of measure are recardable indication of the effect of pressure in expelling arc-cells. The strength of the shaft was 40 tons to the square index and its ductility or power of extension was 30% of its length. By using compressed steel, the driving round of 34 tons was saved during the whole life of the engines.

BOTS.

LISTENSING TO EVEN. REFORTS.—The longer 1 live the more 1 feed the importance of adhering to the rule which I have I and Jown for-tweed in relation to such matters: 1. To hear as little as possible whatever is to the prejudice of oth-ers. 2. To believe nothing of the kind till I am absolutely believe nothing of the kind till I am absolutely believe nothing of the kind till I am absolutely believe in the target of the the spirit of one who circulates an evil report. 4. Always to believe that, if the other side were beard, a very different account, would be given of the matter.—Curve's Life of Someon. Sw Law T—A wave needed a stard of the

Berton, A fory different a count would be given of the matter. - Corras Life of Zimeron.
Site Loix 1.- A very pretty story is toil of the origin of the word "Sirioin," but we fear it is only a story. However, here it is. Charles the Second, of England, is said to have knighted the bon of beel, an one cocasion, after his returning on the table, he exclaimed. "A noble joint? By Ki George, it shall have a title?" And raising his sword above it, he said: "Loin, we dut these knight; henceforth he Sir Loin ?"
Though not an unreasonable falle, it is scarcely probable that it ever took place as related. The which means the upper part of the hom.
Paty.--"Tain" is an ache, or abnormal feel-imported from an unnatural condition of the merve or nerves afflicted, and in most masses it is induced by presented there the induced the head in or near the single relation of the hood in or more the met the sentily enerves by increasing the circulation mechanically, will remove the anotypane.

SUNDAT TRAINS IN CANARA.—Railway trains are not to be permitted for the future to run on Sundays in Canada. The Dominion government has issued orders that no trains are to be run on bundays, excepting in cases of great energency. Of this sunergousy the authorities are to be the judge, no Sunday train being permitted except on direct government order.

February.

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