TO CORRESPONDENTS.

"H. B. of N. Y."-Your drawing and model came all safe and the papers will be made out with all despatch.

" E. L, of Md."-Choose a steam engine, and one of twelve horse power. It will be cheapest in the end.

"J. T. S. of Va."-You will find plenty of mechanics in Boston to take charge of your machine shop.

"R. M. G. of N. Y."-We are sorry to think that you should leave the purely practical, for the vague and unsound. What power can you get above that of the steam, that is, the fountain. We are sorry to say,' that many good mechanics have a notion that levers and cranks increase the power. Tis all folly, and we exhort you to steer clear of the rock upon which many have split.

"N. W. of Conn."-An invention to accomplish what you propose in the draw rollers, was patented last year, and the Examiner's Report describes it to be near the same. The distance between the draw rollers can be varied at pleasure and there are no less than 4 different parts of the invention, which appears to cover a wide field. An examination at the Patent Office would perhaps be the best mode of procedure for you.

" L. A. B. of N. Y."-Spiral pipes for the throwing of water upwards, have been long known, but a spiral tunnel, to our knowledge, has not been used.

"S. J. of Md."-There is no use in using the nitrate of iron in dyeing the blue.

"Erratta"-In answer to a " Subscriber," last week, " cylinder," should have read cistern.

" N. K. of N. Y."-It will require a force of two and six-sevenths pounds applied to the largest wheel to balance the weight of 10 lbs. as represented in your diagram. The amount of power necessary to draw up the 10lbs. weight depends ot course on the friction of your wheels. They might be so accurately fitted as to require but the addition of one-seventh, of three pounds, when the 10 lbs. weight would rise.

"G. W. H. of N. Y."-Your tailors measuring instrument will appear next week. Circumstances have prevented its appearing in this number.

"G. L. of La."-All that we have got to say about artificial cold will be found in this number.

"T. R. of Va."-The resistance arising from the friction of water flowing through pipes is directly as the velocity of the water and inversely as the circumference of the pipe.

"J. C C. of Vt."-Cannons are proved by hydraulic pressure, which is calculated by the weight of a perpendicular column of water, the area being equal to the bore and the height equal to the given height.

"C. B. N. of New York "-You will not be allowed to use the Croton water to propel your wheel, it being against the rules of the Company to allow it to be used for such purposes. No person can tell the power, unless they know the quantity of water discharged in a given time (the velocity,) as well as the fall.

"W. B. S. of N. H."-It will not be possible to get a patent, as your principle is the same as others in use, of which there are a great variety.

"G. C. of N. H."-The rule you want is just the same as the rule for calculating the relative diameters and speed of pulleys. See Whitlaw's Treatise.

Pictorial National Library.

A new periodical bearing the above title. has made its appearance upon our table, and from a hasty perusal of it we should pronounce it both useful and entertaining. The number before us is for July, and it contains fine engravings and a good list of contents .-W. H. Simonds publisher, No. 12 School st. Boston. Price only \$2 a year. We shall express our views in a more elaborate manuer in some future number.

There fell during the last year, in the city of Savannah, Geo, not less than 59 inches of rain. As much as would nearly have covered the whole surface of the ground, five feet in depth.

Russ Pavement.

The Russ Pavement requires thorough inspection as it progresses, and much care. The last work is reported as having been greatly slighted, the cubes being loosely set together in sand, which will soon wash away and leave the upper surface any thing but perfectly true. Cement should be faithfully used to the last, in order to produce the pavement which is so much admired. We have seen some of the cubes taken up to be relaid a few days after it was thrown open for travel.

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