

- M. E. E., of Mo.-We do not understand what you mean by converting centrifugal into centripetal force. In reply to your question whether a jointless arrangement for accomplishing it would be patentable, provided it was useful and new, we reply thatany mechanical device which is novel and useful is pater
- N. A. M. H., of Pa.-We have no idea that a constant electric current would prevent the deposit of paraffine. It could be easily tried.
- C. H., of Pa.-If your engine yields six horse power with 100 revolutions per minute, and you increase the number of revolutions, maintaining the same pressure, you will increase the power in proportion; 150 revolutions will give you nine horse
- C. N. B., of R. I.—You will find the best shingle machines illustrated in back numbers of the SCIENTIFIC AMERICAN
- W. H. H., of Phila .- Mr. H. C. Baird, No. 406 Walnut street, your city, can tell you all about works for scroll patterns
- F. L. K., of Wis .- You can obtain kalsomine, in the form of powder, from any dealer in paints and oils. You had better address D. F. Tieman & Co., N. Y., in relation to it.
- J. S., of Ill.—Water in escaping from an opening in the vertical side of a vessei issues with a velocity just equal to that which would be acquired by a body falling from the surface of the water to a level with the opening. A body falling 9 feet acquires a velocity of about 23 feet per second. Water flowing at this velocity through a slit 50 by 2½ inches, would issue at the rate of 17 cubic feet per second, equal to 1,062 pounds. This falling 9 feet would give 9,658 foot-pounds per second, equal to 573,480 footpounds per minute. Divide by 33,000 and we have 17-horse power pounds per minute. Divide by 33,000 and we have 17-horse power. From the centraction of the vein and the great waste of a flutter wheel it is not probable that you would realize even half of this, probably not more than 5 or 6-horse power.

  D. W., of Wis.—During the descent of the stone to the center of the earth there would be a mass attracting it downward
- greater than the mass attracting it upward; its velocity would consequently be constantly accelerated till it reached the center, and the momentum thus acquired would carry it through to the opposite side
- T. J. E., of Ill.-Air at the surface of the earth is sub jected to a pressure of about 15 pounds to the square inch; if a por-tion be confined and compressed into half the volume the pressure will be doubled. The pressure is in inverse proportion to the

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The money receipts on account of patent business, which have heretofore been published in this column, and the notification of cases sent to the Patent Office, will for the present be discontinued The receipt of specifications and money from inventors will be acknowledged promptly by mail.

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