

page 100, vol. xlii. 2. What make of printer's ink is used in process? A. Best letterpress ink. 3. Can ink be rubbed from paper as in the ordinary copygraph? A. No.

(34) J. A. S. asks: Is there any known chemical which will render rope or cloth incombustible or partly so? A. Saturate the fibers with a solution of 1 lb. crude tungstate of soda in a gallon of hot water.

(35) F. A. asks how to draw water from a distance of about 15 feet in length, and about 40 feet deep. You understand the well is about 15 feet from the place where I want to place the pump, and the well is about 40 feet deep. A. Your pump should be not more than 24 to 28 feet above the surface of the water in the well, therefore you must place the pump in the well and arrange a mode of working it at the point of delivery. Or sink the pump in the earth to the requisite depth, and lead pipe from it to the well.

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the results stated: E. C. C.—Schistose rock containing a little iron oxide—probably manganiferous.—G. F. B.—Iron pyrites—iron sulphide—no value.

[OFFICIAL.]

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Letters Patent of the United States were Granted in the Week Ending August 23, 1881,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for 25 cents. In ordering please state the number and date of the patent desired and remit to Munn & Co., 37 Park Row, New York city. We also furnish copies of patents granted prior to 1866; but at increased cost, as the specifications not being printed, must be copied by hand.

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Wave power apparatus, I. L. Roberts, Jacksonville, Fla.