

60 pounds pressure; 1 1/2 inch opening, 65 pounds pressure. The above I believe are two extremes as to flow, and both wells are for power purposes.

(4478) W. J. A. writes: I want to construct a resistance box for the 8 light dynamo and would like to get some instructions. I want it placed on top of the field magnets and be as small as possible.

(4479) E. R. asks: 1. Would the working of a Samson battery be affected if the zinc be a solid cylinder instead of having a slit down one side?

(4480) A. W. S. says: Will you please inform me through your Notes and Queries column as to whether the dates of the summer and winter solstices are fixed or movable?

(4481) J. B. writes: Please explain the action of a current of electricity passing along a wire a considerable distance (say 100 feet or so) then turning short about and returning to place of beginning, the outgoing portion of the loop and the returning portion being insulated and lying close together the entire route, and the two single ends attached in circuit, so as to cause the current to pass around the loop.

(4482) J. C. H. asks: 1. How many storage cells can the eight-light dynamo charge at one time? A. 30. 2. How often should the solution of a storage cell be renewed? A. It does not require renewal.

might imply, but it contains illustrations of engineering works of magnitude now under construction in the West and well written articles on scientific and general mechanical subjects.

TO INVENTORS.

An experience of forty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

July 26, 1892.

AND EACH HEARING THAT DATE.

[See note at end of list about copies of these patents.]

- Adding machine, R. S. Robertson. 479,531
Advertising clock, F. Welleba, Sr., et al. 479,887
Air brake, J. K. Carpenter. 479,736
Alarm. See High and low water alarm.

- Faucet, registering and measuring, H. F. Read. 479,721
Feed bag attachment, F. E. Kerr. 479,646
Fence, wire distributor for wire, H. C. Pratt. 479,571
Fence, D. Milliken. 479,443
Fence for hay stacks, collapsible, S. O. Thompson. 479,680
Fence pickets, machine for wiring, W. Callaway, Sr. 479,626

- Rock channeling tool, G. M. Githens. 479,499
Rock drill, P. F. Belt. 479,635
Rock, dynamo, P. Cunningham. 479,733
Rotary engine, E. Waldren. 479,479
Safe, A. A. Root. 479,464
Sail cringle, W. R. Cutler. 479,404
Sash balance, G. T. Peters. 479,657
Sash fastener, J. L. Ebert. 479,409
Sash fastener, G. Hopkins. 479,585
Sash, window or door, G. B. Lee. 479,433
Sawing machine, power back, O. Colborne. 479,389
Scaffold, F. B. Glibreth. 479,591
Scaffold bracket, C. Ragdale. 479,682
Scissors sharpener, G. S. Collum. 479,737
Screen. See Window screen.

DESIGNS.

- Bottle, F. H. Thuegler. 21,736
Decorative fabric, M. Schwab, Jr. 21,734
Landscape, W. E. Paul. 21,732
Picture frame, A. Selter. 21,733
Spoon, H. L. Wright. 21,737

TRADE MARKS.

- Beer, Frank Fehr Brewing Company. 21,526
Beer, C. A. Lammer. 21,527
Bindings, dress, Heeman & McCarthy Company. 21,521
Boxes, bottles, tubes, atomizers, and powder distributors used for dispensing powders, liquids, and semi-liquids, McKesson & Robbins. 21,520
Cotton fabric, P. G. Sharpless Bros. 21,511
Fertilizers, artificial, Baldwin Fertilizer Company. 21,520
Foods, malt extracts, and medicated wines, prepared, J. P. Liebe. 21,517
Hardware, Cash Buyers' Union. 21,513
Lard, J. M. Ceballos & Co. 21,523
Liniments or lotions for external and internal use for man and animals, Powell & Gilbert. 21,512
Medicated plasters, Dr. David Kennedy Corporation. 21,524
Medicinal compound the basis of which is the chlorides of gold and sodium, McCrory & Taylor. 21,529
Medicine for certain named diseases, A. L. Worden. 21,519
Medicine for internal use for dyspepsia, nausea, and all derangements of the enteric and urinary systems, California Pharmaceutical Company. 21,528
Perfumery, W. Wright. 21,532
Polishing preparation, Zucker & Levst Chemical Company. 21,518
Remedy for diseases of the stomach and bowels and other painful disorders, Dr. David Kennedy Corporation. 21,525
Remedy for nervous disorders, W. H. Gannett. 21,516
Saws, tools, files, and steel, Henry Diston & Sons. 21,515
Soap, face powder, face cream, tooth powder, and perfumes, toilet, Bipus & Breidenbach. 21,522
Whisky, A. Cowan. 21,514

NEW BOOKS AND PUBLICATIONS.

Milling is the title of a new illustrated monthly magazine of about the size of Scribner's and Harper's monthlies, published by the D. H. Rank Publishing Company, Indianapolis, Ind. It is not solely devoted to milling or the state of the crops, and statistics of the products of the different cereals as its title