

(8224) R. A. S. asks: 1. What is the voltage of six cells of the Edison-Lalande battery, type "Q," as is used in the Otto gas engines, when connected in series? What is the amperage? A. A cell of this type is given 2-3 volt in the catalogue of the company. Six cells in series would have 4 volts. The safe working current is given as 2.5 amperes. The internal resistance of these cells is very low, 0.07 ohm. In order that the current may be 2.5 amperes the coil should have a resistance of 1.2 ohms, with the battery in series. 2. What difference would there be in the voltage and amperage if they were connected in multiple? A. When the battery is in multiple the voltage is 0.667 and the internal resistance is 0.01 ohm. With the same external resistance the current given would be about one-half an ampere. 3. I have a small toy motor which will run on two cells of the battery, if connected directly with the battery, but will not run on all six cells after it has passed through the resistance coil used for making the sparks for the engine. Can you tell me why this is? A. This is because the resistance of the coil is large as compared with that of the battery.

(8225) L. E. Dare asks: Is there an electric light which can be used successfully at any depth of water and about at what depth? A. Any incandescent electric light will burn under water at any depth if the wires and the lamp are protected from getting wet.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending June 11, 1901,

AND EACH BEARING THAT DATE.

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

Table listing inventions with descriptions and patent numbers. Includes items like 'Advertisement displaying device', 'Air compressor', 'Bicycle handle', 'Bottle cork block', 'Carriage', 'Cash register', etc.

Table listing inventions with descriptions and patent numbers. Includes items like 'Cash register', 'Chain links', 'Clock signal', 'Coin controlled apparatus', 'Cotton chopper', 'Drill', 'Elevator safety', 'Eye cups', 'Farm gate', 'Fire alarm', 'Fluorescent lamp', 'Gas burner', 'Grinding machine', 'Hay rake', etc.

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 Safety bit, E. C. Hawthorne, 676,312
 Sash and frame and fittings therefor, win-
 dow, H. Stump, 676,159
 Sash fastener, J. J. Ryan, 676,175
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 Goldberg, 676,310
 Saw, G. R. Jackson, 676,135
 Saw gage, D. C. Steele, 676,282
 Saw set, T. Roseboom, 676,342
 Scaffold, window, A. D. Cramer, 676,303
 Screw machine, coach, G. H. Webb, 676,290
 Seal, bottle, W. E. Heath, 676,088 to
 Sectional ball, G. E. Clow, 675,933
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 fabrics, Kursheedt & Groebli, 675,893
 Sewing machine turling attachment, F.
 Kustner, 676,387
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 Weiss et al., 676,291
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 & Cameron, 676,143
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 holder, J. W. Collins, 675,934
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 Karcher, 675,959
 Steam generator, oil heated, C. Musker et al., 676,112
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 mond, 675,974
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 block for, J. H. Simpson, 676,010
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 good, 676,299
 Still and condenser, water, W. I. Avery, 676,172
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 drum et al., 676,072
 Stone sawing machine, H. F. Perkins, 375,904
 Stool, folding, A. M. Johnson, Sr., 676,319
 Storage battery, V. G. Apple, 675,918
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 Stroboscopic apparatus, O. Messier, 675,962
 Sugar, facilitating crystallization of, E.
 Delafond, 675,938
 Syringe, return flow, D. N. L. Newbury, 676,269
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 Tackle blocks, automatic grip for, D. H.
 Morgan, 676,147
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 Telegraph receiver, printing, J. M. Joy, 675,894
 Telegraph transmitting apparatus, printing,
 K. Himrod et al., 676,091
 Telegraphy apparatus, wireless, G. Mar-
 con, 676,332
 Telescopic case, C. J. Lyons, 676,142
 Temperature limits, mechanism for control-
 ling and indicating, Griffiths & Whet-
 ham, 676,311
 Tender coupling, W. F. Richards, 676,154
 Tension ball, pieces, S. Berens, 676,024
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 Tie lifter, F. J. Hively, 676,305
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 cer, 676,400
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 R. Torras, 676,345
 Towing machine, F. Metcalf, 676,196
 Toy, D. L. Falardeau, 676,125
 Toy, V. C. Balding et al., 696,297
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 Toy top, A. Irving, 676,191
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 Tree protector, fruit, L. Patrie, 676,201
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 Truck, J. A. Martin, 675,896
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 A. C. Hunkemoller, 676,134
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(Continued on page 399)

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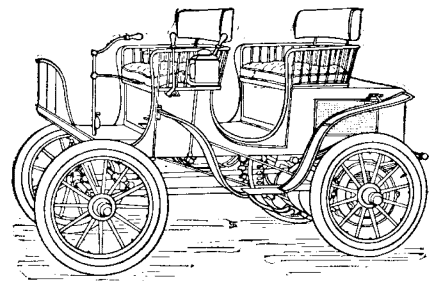
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 "Horlick's Malted Milk Hot," for malted milk, Horlick's Food Co..... 357
 "Horlick's Malted Milk With Egg," for malted milk, Horlick's Food Co..... 358
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