

INDEX OF INVENTIONS.

Anchor trippers, E. H. Emerson	5853
Arms, breech-loading fire, James Lee	5844
Bands, manufacture of, L. Bluns	5873
Bed bottoms, C. W. and S. Purcell	5943
Bedstead, invalid, W. Spanner	5931
Boot and shoe heel counters, J. Kieffer	5955
" " lasting, C. M. Hineckley	5952
" " sewing machine, L. L. Barber	5947
Brick machine, C. S. Bigler, L. D. Gilbert and J. B. McPherson	5865
Buckets, sap, E. E. Spencer	5910
Building, ventilating, R. Thomas	5903
Cages, bird, A. F. Dunlop	5954
Camp lounge, G. T. Barker	5872
Car, stock, J. R. McPherson	5930
" wheel, W. W. Lobdell	5855
Carriage seats, S. W. Beach	5891
Censers, J. J. Dunn	5928
Cheques, bonds, &c., J. E. Winner and H. K. Fox	5958
Chimney cowls, A. J. Robinson	5845
Churn powers, C. Edwards and F. D. Lisson	5919
Coal, &c., holsting, G. Stanciliff and J. Green	5864
Cooking stoves and ranges, T. R. Timby and L. T. Yale	5890
Copper, sulphate of, J. H. Dennis	5944
Cords, manufacture of, L. Bluns	5873
Cultivators and seeders, R. Sylvester	5900
Curials, stretching, J. A. Green	5906
Dental apparatus, E. P. Brown and H. C. Howells	5938
Drills, removing broken, J. W. Platt	5956
Duster, feather, L. A. Stoll	5862
Dusters, furniture, L. Hobolth	5948
Elevator, rock and stump, J. McBatchelor and C. Hill	5924
Engines, pumps and meters, W. Carey and J. Bulman	5914
Feather duster, L. A. Stoll	5862
Fertilizer, converting leather, &c., into a, H. O. P. Lissagaray	5849
Fishing, &c., netting for, B. Arnold	5941
Fire arm, breech loading, J. Lee	5844
" extinguisher, A. M. Murphy	5907
" in petroleum tank, J. H. Connelly	5861
Furnace for gas retorts, D. Davidson	5937
" glass, C. W. Foster	5925
Fuse lighter, J. W. Platt	5868
Gas burners, G. H. Larmine and J. H. Gordon	5911
" retorts, furnace for, D. Davidson	5937
" stoves, C. Burnham and J. G. Talte	5857
Gate, railway crossing, H. A. Stearns	5929
" farin, J. Y. Williams	5962
Gelatine, desiccating, J. J. Rogers	5949
Glass furnaces, C. W. Foster	5925
" melting, J. N. Tarbox	5877
Grain binders, E. R. Whitney and T. Conant	5893
" mashing and grinding, J. T. C. Cove	5892
Grates, stove, T. B. Griffith	5960
Heel counters, J. Kieffer	5955
Hinges, J. B. Winters and P. Williams	5905
" J. W. Vaughan	5881
Holsting Coal, &c., G. Stanciliff and J. Green	5864
Hoof spreading, C. H. Shephard	5898
Horse shoe nail, D. Armstrong, J. A. Hutchinson and E. Kingland	5957
" shoes, E. L. Tevis	5895
Hydraulic machinery, J. Canan	5915
Ladders, extension, O. Sherwood	5856
Lamps, &c., device for filling, W. Sedgwick	5848
Leather, &c., into a fertilizer, converting, H. O. P. Lissagaray	5849
Lightning rod, J. Hewitt	5867
Looms for suspenders, &c., C. H. Chapman	5916
Melodeons and organs, G. T. McLaughlin and T. F. Scanlan	5959
Metal shears, T. Berridge	5953
Meters, pumps and engines, W. Carey and J. Bulman	5914
" water, N. W. Knowlton	5933
Middlings purifier, B. Barker	5942
Milk cooling, W. G. Watson	5866
" pan, G. G. May	5932
" " H. A. Hannum	5896
Millstones dressing, G. T. Smith	5876
Moulding machines, D. Cameron and J. Ballantyne	5951
Nail blank machine, T. T. Wood	5854
" horse shoe, D. Armstrong, J. A. Hutchinson, E. Hutchinson and E. Kingland	5957
Neck tie, J. B. Carter	5897
Netting for fishing, &c., B. Arnold	5940

Organs and melodeons, G. T. McLaughlin and T. F. Scanlan	5959
Petroleum tanks, preventing fires in, J. H. Connelly	5861
Planting corn, &c., C. D. Oakes	5917
Pipes, joints for water, R. Thomas	5904
" vener, R. M. Bros	5936
Pistols, E. P. Boardman	5878
Ploughs, snow, W. M. Orton	5840
Pumps, engines and meters, W. Carey and J. Bulman	5814
Railroad crossing and switch, J. S. Williams	5902
Railway car platform, C. B. Crease	5901
" crossing gate, H. A. Stearns	5929
" flange cleaner, E. Temple and J. H. Miller	5946
" track lifter, D. B. McDonald	5889
Rake and loader, hay, J. G. Krause	5863
" horse, W. S. Archer, E. M. Wood & C. B. Clegg and G. E. Archer	5966
" horse, A. Wood	5858
Rattan ware, S. H. Penley and A. J. Dorman	5918
Rivet drilling, M. Bray	5923
" setting, M. Bray	5922
Rock and stump elevator, J. McBatchelor and C. Hill	5924
Saw file guides, E. Roth	5963
Screws, manufacture of, J. Frearson	51 30
Seed planter, W. V. Burgess	5739
Seeders and cultivators, R. Sylvester	5900
Seedling machine, G. J. Barclay	5894
Sewing machine, G. L. Dulaney	5879
" " M. P. Carpenter	5965
" " C. F. Ritchell	5852
" " R. M. Meluish	5964
Shears for metal, T. Berridge	5953
Ships rudders, attachments of, G. H. Couvrette and P. Frigon	5869
Slide walk fasteners, W. Brisley	5913
Sowing plaster, &c., C. D. Oakes	5917
Spring, vehicle, S. Newcomb	5935
" for vehicle, J. J. Stock	5926
Sowers, fertilizer and seed, R. L. Galer and E. E. Spencer	5961
Springs, door, A. A. Stinson and C. T. Sablin	5886
Stamps, cheques, &c., J. E. Winner and H. K. Fox	5958
Still columns, E. Melchers and H. Deymann	5853
Stock car, J. R. McPherson	5930
Stove base plate, J. W. Elliot	5882
" grates, T. B. Griffith	5960
" pipe joints, J. Draper	5934
" and ranges, T. R. Timby and L. T. Yale	5890
" gas, C. Burnham and J. G. Talte	5857
" heating, G. M. Goodve	5851
Straw-cutter, L. Cossitt	5945
" " A. Anderson	5912
Studs, shirt, J. B. and W. Bennett	5899
Stump and rock elevator, J. McBatchelor and C. Hill	5921
" machine, R. P. Cory	5887
Surgical appliance for insteps, R. Ames	5847
Tanning extracts, J. Foley	5880
Telegraph insulators, R. B. McNicking	5860
Threshing machine, J. Abell	5888
Treenail machine, S. H. Newcomb	5908
Type distributing, W. D. C. Pattysen	5921
" setting, W. D. C. Pattysen	5920
Vehicle spring, J. J. Stock	5926
" " S. Newcomb	5935
Vener cutting, S. Wallace	5885
Ventilating buildings, R. Thomas	5903
Washers, steam, H. P. Robbins	5901
Washing machine, L. Cartwright	5727
" " S. Williams	5870
Well, driven, J. Suggett	5859
Wheel car, W. W. Lobdell	5855
" turbine water, W. S. Phelps	5881
Wind mills, M. Crossman	5871
Windows, W. West, and J. Lord	5875
Wool, &c., into a fertilizer, converting, H. O. P. Lissagaray	5849
Wrench, pipe, E. G. Clinch	5874
" " J. W. F. Finlay	5850

INDEX OF PATENTEEES.

Abell, John, threshing machine	5888
Ames, Reginald, surgical appliance for insteps	5847
Anderson, Alexander, straw cutters	5912
Archer, G. A. & W. S., E. M. Wood & C. B. Clegg, horse rake	5966