

ANIMAL TRAP.—Lawrence Lewis, of Tuskegee, Ala.—This invention has for its object to furnish an improved trap for catching rats, mice, and other animals. The animal, in trying to reach the bait, steps upon a platform, which withdraws a catch from the door of a box and allows the door to be revolved, through a quarter of a revolution, into a vertical position, when its upper edge is caught and held by another catch. The slam of the door frightens the animal, which, seeking to escape, rushes through the passage way leading into a rear compartment, raising another door in his passage, which movement operates a lever, releases the first door, and allows it to be revolved into a horizontal position, again setting the trap.

HAY LOADER.—Thomas Giffin, of Perrysville, Ohio.—This invention has for its object to furnish an improved machine for loading hay spread upon the ground directly upon the wagon. It consists in the construction and arrangement of bearings and castings arranged upon an axle and the frame work of the machine, with a combination of rake teeth and guides with a frame work and a carrier.

HARVESTER.—Ernst Henry Ruwe, of Walcott, Iowa.—A revolving rake or scraper, having mechanism to carry it over a double track is employed in this invention. The platform is projected beyond the divider and is turned upon a curve corresponding to the orbit described by the passing scraper. By this construction not only is an auxiliary divider furnished which will press the standing grain out of the way of the revolving rake, but an extension which effectually prevents, by its activity, the straw from working over the edge of the platform. A rod placed longitudinally across the platform and directly in the rear of the cutter bar, holds up the butts of the straw and prevents the scraper from passing over them. A cross bar, with its fingers and a double rail, causes the endless chains to move uniformly and without wobbling.

[OFFICIAL.]

Index of Inventions

For which Letters Patent of the United States
were granted

FOR THE WEEK ENDING FEBRUARY 20, 1872, AND EACH
BEARING THAT DATE.

Amalgamator, Langtry and Emmett.....	123,918
Amalgamator for gold and silver, voltaic, J. H. Rae.....	123,982
Anger, well, F. Spees.....	123,847
Bag, traveling, F. Lagowitz.....	123,830
Bale tie, cotton, G. W. Adams.....	123,853
Baling short cuthay and straw, W. Hadwin.....	123,824
Bee hive, J. E. Moore.....	123,924
Bench, folding wash, J. N. Valley.....	123,955
Billiard tables, leveling jack for, Paxton and Hull.....	123,791
Bisulphites, apparatus for the manufacture of, W. J. Turner.....	123,799
Boat, life, O. R. Ingersoll.....	123,908
Boiler, culinary, J. Gibbs.....	123,876
Boiler, culinary, J. D. Durham.....	123,876
Boiler, steam, M. Smart.....	123,845
Boiler, sectional steam, D. Renshaw.....	123,793
Boiler low water alarm and fire extinguisher, steam, B. R. Singleton.....	123,795
Bolts, machine for forging heads of, J. Greenwood.....	123,822
Book binding, G. Smith.....	123,947
Bootjack, T. Anthony.....	123,759
Boot and shoe heels, burnishing, A. C. McKnight.....	123,783
Boring tool, G. W. Moore.....	123,786
Bottlestopper, Malmstrom and Dummer.....	123,920
Bottle stopper, P. R. Higley.....	123,898
Bracket, leader, S. J. Dwyer.....	123,877
Brakes, coupling for steam or air, S. N. Goodale.....	123,776
Brush, blacking, N. Eisenmann.....	123,815
Buckle, bridle, D. S. Butler.....	123,866
Burner, vapor, H. Fayette.....	123,879
Burners, suspending glass bowls under gas, J. C. Conner.....	123,870
Car brake, G. H. Reynolds.....	123,840
Car, dumping, C. Barrett.....	123,762
Car window, W. McCaul.....	123,833
Car wheel, adjustable, G. G. Lobdell.....	123,919
Car, link guide for coupling, N. L. Post.....	123,930
Car wheels upon axles, adjusting, J. Kaiser.....	123,913
Carburetors, siphon can for, R. S. Osborn.....	123,926
Carding machines, roll for, E. J. Worcester.....	123,965
Carriage, L. W. Coe.....	123,809
Carriage wheel, A. M. Ocoobock.....	123,836
Carriage spring and mode of attachment, C. W. Saladee.....	123,937
Carriage tops, slat iron for, J. W. Sheppard.....	123,942
Carriages, handle for children's, J. H. White.....	123,960
Cartridge box, J. W. Frazier.....	123,988, 123,884
Caster, pickle, H. C. Wilcox.....	123,961
Chair, folding, C. Marcher.....	123,882
Chill for casting chilled rolls, R. Tolmie.....	123,953
Chimney, steamboat, C. and R. Hawthorn.....	123,896
Chimney, steamboat, W. J. Hamilton.....	123,825
Cloth, method of drying napped, W. Chapin.....	123,765
Cock, valve, S. Adams (reissue).....	4,762
Coffin from paper or other pulp, F. Keenan.....	123,781
Corn shellers, A. Adams.....	123,753
Corset spring, G. O. Schneller.....	123,938
Cultivator, seeder, and stalk cutter, combined, J. and W. Whait.....	123,955
Curtain fixture, E. T. Briggs.....	123,861
Cutter head, A. Van Vleck.....	123,800
Desk, school, W. A. Slaymaker.....	123,796, 123,797
Digger, potato, Wing and Green.....	123,966
Digger, potato, W. W. Speer.....	123,846
Diseases in vacuo, treating, R. S. Gee.....	123,887
Drawing frames, stop motion for, D. W. Hayden.....	123,826
Dredge box, W. S. Potwin.....	123,792
Drilling machine, W. and J. Gardam.....	123,886
Earth closet, A. A. Jaqua.....	123,780
Electromagnetic annunciator, C. E. Chinnock.....	123,808
Elevator, C. W. Baldwin.....	123,761
Engine, compound reciprocating, H. Bertieaux.....	123,857
Engines, valve for direct acting, G. F. Blake.....	123,754, 123,765
Fastener, door or shutter, W. Fields.....	123,816
Faucet, bush for, Netzow and Heck.....	123,789
Fence, A. M. Alpin.....	123,854
Fence, flood, R. S. Gilcrest.....	123,839
Files, machine for cutting, A. Weed.....	123,849
Fire arms, projectile for, S. E. Jones.....	123,824
Fire extinguisher, C. L. Levey.....	123,783
Fire extinguisher for steam boilers, A. G. Davids.....	123,874
Fruit box, J. Shepard.....	123,941
Fuel, artificial, C. D. Williams.....	123,962
Furnace, steam boiler, C. H. Fox.....	123,883
Furnace for smelting iron, S. W. Harris.....	123,894
Furniture, fender for, G. R. Wilmot.....	123,965
Gas from petroleum, manufacture of, W. H. Spencer.....	123,950
Gate, J. J. and J. T. Hoss.....	123,902
Gate, children's nursery, E. Howard.....	123,904
Gin, cotton, J. G. Case.....	123,868
Governor, automatic, Jones and Hall.....	123,911
Governor, steam engine, I. S. Schuyler.....	123,939
Grain binder, C. B. Withington.....	123,967
Hair curling pin, J. Hall.....	123,778
Harvesters, machine for grinding cutter bars for, J. H. and J. S. Griffin.....	123,890
Heater boiler, steam, F. Brackney.....	123,767

Horse collar, A. Snively.....	123,948
Horse power, L. R. Faught.....	123,774
Hose coupling, Kenyon and Wagenhals.....	123,914
Iron, etc., machinery for puddling, V. S. Bloomfield.....	123,860
Iron, manufacture of metal coated sheet, B. Morison.....	123,787
Ironing machine, A. G. Gardner.....	123,819
Jack, lifting, C. A. Masterson.....	123,784
Jar, preserve, A. Q. Withers.....	123,851
Knapsack, J. W. Frazer.....	123,885
Label gumming apparatus, J. H. Hudson.....	123,906
Ladder, extension, L. N. Millener.....	123,884
Lamp, I. W. Shaler.....	123,940
Lamp, carbureting, Porter and Gray.....	123,929
Lamp wick, C. P. Ladd.....	123,917
Lamp or holder, candle, M. Weis.....	123,803
Last, W. J. B. Mills.....	123,835
Latch, J. H. Fisher.....	123,817
Latches, self-centering chuck for, G. O. Buckley.....	123,863
Letter box, alarm, and door plate, combined, Z. E. Fobes.....	123,880
Lifting apparatus, G. B. Windship.....	123,804
Light, electric, A. A. Meynil.....	123,923
Lightning rod, D. F. Welsh.....	123,958
Loom picking mechanism, E. P. Terrel.....	123,952
Lubricator, axle, Soellinger and Noetzli.....	123,949
Lubricator, car axle, W. P. Burrow.....	123,865
Match, safety, H. Howse.....	123,965
Mattress, etc., material for filling, F. C. Cone.....	123,810
Measure, lumber, W. S. Poulsen.....	123,931
Meat mincer, Holzwarth, Froesch and Gerhards.....	123,899
Medical compound, P. Roskopf.....	123,934
Metal vessels, collar for sheet, J. M. Patterson.....	123,887
Metal ware, machine for stamping sheet, W. D. Grimshaw, (reissue).....	4,765
Meter, water, G. Sickles.....	123,946
Milk cooler, C. A. Douglas.....	123,813
Mill, fanning, J. Drummond.....	123,814
Mustache guard, E. J. F. Randolph.....	123,859
Mowing machine, J. J. and F. Bulfinch.....	123,864
Musical instrument, A. Young.....	123,969
Nuts, device for locking, S. B. Lowe.....	123,831
Nuts, manufacture of screw threaded, C. H. Guard.....	123,823
Oil, distilling coal, S. Hudson.....	123,907
Oil tanks, apparatus for filling and emptying, D. Birdsall.....	123,859
Ottoman and hassock, G. B. Green.....	123,821
Ox shoes, die for manufacturing, B. S. Parker.....	123,927
Pail, dinner, L. K. Williams.....	123,963
Paper bag, L. C. Crowell.....	123,811
Paper bag machine, L. C. Crowell.....	123,812
Paper cutting machine, P. H. Hopkins.....	123,901
Paper, figure tinted, La Monte and Saxe.....	123,782
Paper, etc., machine for drying, E. C. Wilson.....	123,850
Pegging machine, awl for, E. P. Richardson.....	123,841
Pen, ruling, E. Ingram.....	123,827
Pencils, press for stamping lead, T. H. Muller.....	123,925
Perch irons, die for making, J. W. Sheppard.....	123,948
Pipejoint, S. Trumbore.....	123,954
Piston packing, G. Gwynn.....	123,891
Plow, J. Wallace.....	123,957
Plow, C. Billups.....	123,858
Plow colter, J. Pinkham.....	123,838
Plow, gang, F. G. Charles.....	123,869
Plow, ice, J. H. Cutter.....	123,873
Plowshares, apparatus for forming, E. Ball, Jr.....	123,805
Potash, etc., manufacture of sulphates of, H. Deacon.....	123,875
Printing yarn, W. McAllister.....	123,921
Printing machinery, plate, J. T. Robertson.....	123,938
Pump, steam, G. F. Blake.....	123,766
Pump valve, D. Metz.....	123,922
Rack, toilet, D. A. Russell.....	123,935
Riveting machine, J. Berry.....	123,768
Sand paper holder, J. D. Gernez.....	123,888
Saw mill, circular, J. P. Grosvenor, (reissue).....	4,763
Saw grinding machine, C. T. Shoemaker.....	123,945
Saw mills, head block for, D. Lane, (reissue).....	4,764
Screw cutting machine, L. W. Stockwell.....	123,951
Scythe blades, manufacture of, N. P. H. Willis.....	123,964
Seats and desks, joint for, J. Peard.....	123,928
Sewing machine, T. Hall.....	123,892
Sewing machine, Q. M. Youngs.....	123,852
Sewing machine treadle, C. A. Foster.....	123,775
Sewing machines, ruffling attachment for, A. Johnston.....	123,910
Sewing machine's, ruffling attachment for, H. Moschowitz.....	123,788
Sewing machines, thread cutter for, G. H. Dimond.....	123,772
Shaft socket, F. Kern.....	123,915
Shutter, rolling, Von Langen and Robb.....	123,802
Sign, J. H. and C. W. Crane.....	123,871
Soldering gas cock for, Walker and Jones.....	123,956
Spinning machines, spindle and whorl for, W. T. Carroll.....	123,867
Springs for doors and gates, C. W. Saladee.....	123,843
Steam gage, registering, E. H. Ashcroft.....	123,855
Stone lifter and stump extractor, J. Knoop.....	123,916
Stove, cooking, G. Ryder.....	123,842
Stove platform, J. Hopke.....	123,900
Telegraph insulator, D. R. P. Emminger.....	123,878
Telegraph, signal box for fire, Wright, Holley and Miles, (reissue).....	4,970
Thill coupling, W. G. Foster.....	123,881
Thill coupling, D. A. Johnson.....	123,909
Tobacco, treating, J. Ashcroft.....	123,760
Tooth pick machine, Noble and Cooley.....	123,790
Top joint, etc., C. W. Saladee.....	123,936
Trap, animal, J. M. Hill.....	123,779
Trap, fly, D. Henderson.....	123,897
Trap, gopher, J. Bowman.....	123,807
Trolling hook, G. Sinclair.....	123,844
Truck, brick machine, F. L. Hall.....	123,777
Umbrellas, device for opening or closing, E. P. Jones.....	123,912
Valve, globe, E. Thayer.....	123,843
Valve, self-acting water, J. N. Deck.....	123,7