

RECENTLY PATENTED INVENTIONS.

Electrical Devices.

AUTOMATIC BLOCK-SIGNAL SYSTEM.—J. McILWAIN, Okawville, Ill. By this system it is almost impossible for engineers to be unaware of the presence of other trains, and there is no excuse for a wreck. Lights upon the north side of the track are of different color from those upon the south, and lights in the signaling-station are colored accordingly. Should the engineer be color-blind he can at least see by looking ahead along the track that there are lights upon both sides of the track, which indicates something wrong. Should he recklessly disregard signals altogether, he is warned by the station agent, who watches the signals and keeps track of the trains.

Of Interest to Farmers.

WEEDING-HARROW.—L. M. Morrow, Wasco, Ore. The harrow frame is mounted on wheels and provided with a draw-bar and appliances for hitching draft-animals thereto. Duplicate supplementary frames are employed, together with cutters and brackets therefor, mounted in duplicate series, one series being reversely disposed to the other and each having independent co-operative relation with one of the supplementary frames. The cutters of one or both series may be operated at will to penetrate the soil to effect cutting and upturning of weeds, and by same means both series may be elevated from the surface of the soil to facilitate turning the harrow or transferring it from field to field.

COMBINED RAKE AND STACKER.—I. D. SCHENCK and F. V. THOMPSON, Basin, Wyo. This invention relates to apparatus adapted to rake hay of various kinds from the swath, bunch, or windrow, to carry a charge of hay upon the rake-fingers to the stack, and to raise the charge and deposit it upon the stack. The object is to provide a simple apparatus which will work effectively as a rake and a stacker and which will so enable one man driving the rake and stacker to do the work ordinarily performed by two, one driving the rake and the other operating the stacker located at the stack.

Of General Interest.

RECEPTACLE-CLOSURE.—J. C. CHADWICK, Englewood, N. J. This invention refers to improvements in closures for receptacles for tooth-powder or the like and of that class having a discharge-opening at one side. The object is to provide a closure of simple construction by the use of which the exact amount of powder will be discharged, thus resulting in an economical use of the powder.

VETERINARY MOUTH-SPECULUM.—I. C. CARSTENSEN, Oakesdale, Wash. In this instance the invention is an improvement in mouth-speculums which are particularly adapted for use in veterinary surgery or dentistry for holding open an animal's mouth and preventing the jaws closing while the operation proceeds.

KILN.—A. F. DIETZ, Perth Amboy, N. J. This improvement relates, primarily, to a kiln for burning brick, tile, terra-cotta, and other earthen or ceramic material in which the heat is developed by burning pulverized fuel, such as a bituminous coal fed in the combustion-chamber in suspension in a blast of air. In this way complete utilization of the fuel fed into the kiln and high temperature are attained.

GARMENT-SUPPORTING DEVICE.—J. W. STOCKWELL and R. COATES, Jackson, Mich. The object of the invention is to produce a device which may be easily attached and detached, but which will not become detached accidentally, and which will be simple in construction and cheap to manufacture. The device has two reverse hooks for supporting garments and one or more hooks for securing it to one of the garments, all made out of a single piece of wire.

CHAIR LIFE-PRESERVER.—M. KUHNEN and A. SPADER, Rondout, N. Y. One of the purposes of the invention is to provide a chair which will serve all the functions of such an article, but which at a moment's notice can be quickly and conveniently converted into a life-preserver for use upon water, the parts of the device when used as a life-preserver being in the form of a raft.

Machines and Mechanical Devices.

TENSION DEVICE FOR WARP-BEAMS.—G. KELLER, New York, N. Y. The object of the present invention is to provide a device for warp-beams or warp-carrying spools having a long range of movement and designed with a view to take up comparatively little room and to allow direct application of the device on the warp-beam or warp-carrying spool without the use of interposed gear-wheels. The invention relates to tension devices for warp-beams, such as shown and described in the Letters Patent of the United States formerly granted to Mr. Keller.

BAND-SAW.—C. SEYMOUR, Defiance, Ohio. Certain new and useful improvements in band-saws are provided by this inventor, whereby any sudden quiver or jar in the saw band or blade incident to the latter's striking a knot or the like is quickly compensated for to prevent injury to or breaking of the saw band or blade and whereby the endless saw-band can be

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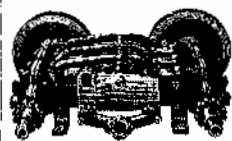
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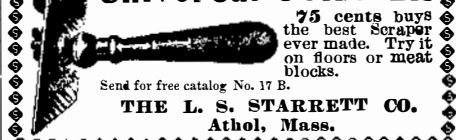
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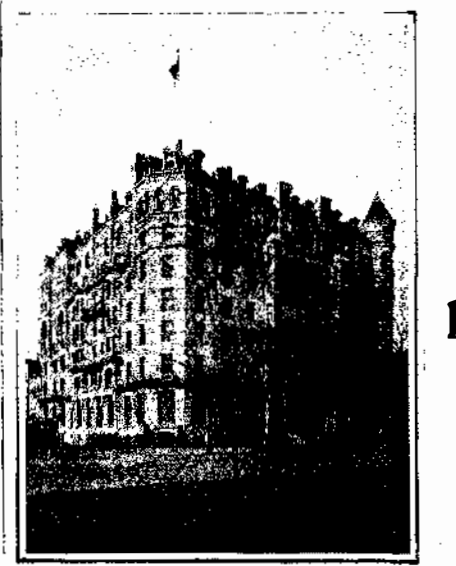
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readily removed and replaced and all slack in the saw-band can be taken up at any time and while the band-saw is in use. This application is a division of the application for Letters Patent of the United States for a band-saw formerly filed by Mr. Seymour.

OIL-CLOTH-PRINTING MACHINE.—W. H. WALDRON, New Brunswick, N. J. The intention of the present improvement is to provide a machine for printing oil-cloth arranged to insure a positive locking of the intermittent driving mechanism for the color-trough, to cause an easy driving and locking of said mechanism without shock or jar, to allow convenient adjustment or detachment of the printing-blocks, and to reduce the weight of the trough to a minimum. This is a division of the application for Letters Patent of the United States formerly filed by Mr. Waldron.

PNEUMATIC CONTROLLING DEVICE FOR ORGANS.—H. L. DAVIS, New York, N. Y. The object of the improvement is to provide a device arranged to render the pipe-valves exceedingly sensitive, to insure proper opening and closing of the pipes, to render the pipe-valves noiseless in their action by stopping off the exhaust for the key-action by a diaphragm-valve controlled by high pressure from the draw-stop action.

AUTOMATIC PIANO-PLAYER.—J. B. WALKER, New York, N. Y. The invention relates to musical instruments and to appliances for actuating the same and admits of general use, but is of peculiar value in instances where the playing is partially automatic and partially under manual control of the operator. By Mr. Walker's improvement any variation of the relative intensity of theme and accompaniment may be produced that is possible in playing the piano by hand. He provides means by which improved control of expression may be secured with fewer levers than commonly used. For this control he employs a movement that admits of a "touch" corresponding in direction, sensitiveness, and rapidity to the stroke of the fingers in hand-playing. He brings the apparatus into conformity with the natural instinct of the operator to strike vertically downward with his hand and to strike with vigor proportional to the intensity desired in the expression of music.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

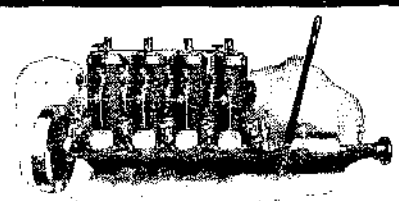
October 24, 1905

AND EACH BEARING THAT DATE

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

Accumulator, steam regenerative, L. P. L. Battu	802,491
Alarm system, J. M. Latimer	802,573
Animal tether, J. L. Schaff	802,411
Animal trap, J. M. Harris	802,858
Article holder, J. Sendelbach	802,481
Auger brace, Z. Scott	802,713
Autographic register, W. G. Pilkington	802,403
Automobile headlight holder, J. L. De Good	802,846
Automobile horn and means for operating the same, C. H. Foster	802,386
Baling press, W. M. Rheem	802,475
Baling press, G. W. Pearson	802,706
Barrel cover, D. S. Pierce	802,881
Bearing, antifriction, H. C. Burnett	802,798
Bearing for subaqueous and other shafts, J. H. Gray	802,750
Beater, E. T. Farmer	802,923
Bed, convertible sofa, W. T. Rolph	802,599
Bed spring, W. H. Sleight	802,415
Bed spring, T. C. Carey	802,624
Bedstead, C. L. Tuttle	802,610
Bedstead attachment, H. E. Henwood	802,756
Bell, electric, C. E. Avery	802,675
Bell or gong, J. L. Feeney	802,805, 802,924
Bell ringer, electric, I. W. Hall	802,753
Bell ringing apparatus, F. Weule	802,437
Belt, apparel, H. J. Gaisman	802,558
Belt loop or frame, H. J. Gaisman	802,559
Bicycle, H. Ingham et al.	802,695
Binder, temporary, G. H. Moore	802,403
Binder, temporary, W. S. Mendenhall	802,520
Bit. See Driving bit.	
Boat, automobile, E. Fournier	802,852
Bodies or balls, machine for making spherical, M. F. Christensen	802,495
Boiler, L. Rowan	802,479
Booster, spring, W. J. Feister	802,744
Bolting machine, T. W. Graham	802,563
Book, check, Slane & Corbaley	802,893
Boots and shoes, means for use in measuring and fitting, W. M. Halbach	802,808
Bottle, G. T. Liddle	802,400
Bottle, gaged sample, B. S. Hawley	802,641
Bottle, non-refillable, L. Hoffmann	802,510
Bottle stoppers, metal cap for, E. M. Gilmore	802,562
Brace rod tightener, J. A. Aue	802,547
Bracing machine, J. Kappeler	802,645
Brake head, G. A. Woodman	802,723
Brake rigging, W. F. Kiesel, Jr.	802,762
Brick building, C. A. Harris	802,566
Bricks or blocks, manufacture of lime and sand, E. Steffler	802,608
Bristle cementing machine, J. Schreiner	802,827
Brooder, J. H. Huff	802,693
Brush, fountain, Chrysler & Kays	802,627
Bucket attachment, paint, W. Hetherington	802,861
Buckle, cross line, F. Ringhausen	802,476
Buckle, cross line, C. Stacke	802,715
Building block, G. L. Peabody	802,593
Building block and wall construction, Z. Anderson	802,903
Building blocks, molding machine for making, W. E. Dunn	802,848
Bunsen burner attachment, E. R. Kelley	802,454
Butter cutter and measurer, G. Ericson	802,742
Butter molding machine, T. Le Beau	802,700
Button, C. H. Schott	802,663
Button, removable self-fastening, O. C. Schulz	802,664
Caloric engine heater, I. W. Ammen	802,440
Campher, making, L. Ach	802,792, 802,793
Can cover fastener, C. E. Bertels	802,677
Can filling machine, A. Cerruti	802,367
Caponizer, D. D. Shirley	802,414
Car, T. H. Proske	802,788

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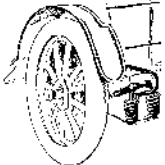
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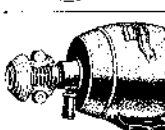


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Car body for wrecking cranes, S. L. G. Knox	802,456
Car coupling, G. A. Herrmann	802,509
Car, dumping, R. H. Stevens	802,532
Car seat, R. D. Long	802,519
Cars, coupling centering device and carry-iron for railway, J. R. Mitchell	802,464
Cars, draft rigging for freight, M. Kennedy	802,514
Cars, draft rigging for railway passenger, J. R. Mitchell	802,465
Cars, end bracing for box, Henrion & McRobbie	802,689
Carpenter's jack, P. J. McCulley	802,522
Cash register, change maker, change deliverer, and purchase check discharging machine, combined, E. H. Spear	802,829
Casting box, E. Hall	802,752
Cement clinker, apparatus for burning Portland, T. A. Edison	802,631
Centrifugal separator, W. H. Peck	802,778
Chain links, mechanical manufacture of, J. Girlet	802,447
Change marking and cash ejecting mechanism, E. H. Spear	802,830
Cheese cutter, C. F. Fogg	802,385
Chura, F. B. McKenney	802,873
Circuit controller or electric switch, J. P. Coleman	802,369
Circuit controlling device, H. T. Johnson	802,697
Cleaner. See Window cleaner.	
Clock, H. Burmeister	802,910
Cloth cutter, C. Schneider	802,943
Cloth measuring device, E. L. Clark	802,628
Cloth splitting machine, F. E. Ames	802,545
Clutch mechanism, J. Harding, Jr.	802,688
Coating machine, L. C. Steele	802,607
Coating machine, A. J. Ford	802,745
Coil, heat, F. B. Cook	802,684
Coin counting, registering, and bagging machine, C. S. Batdorf	802,551
Coin landing machine, C. S. Batdorf	802,549
Coin handling machine, Batdorf & Fowler	802,550
Collapsible box, E. C. Creighton	802,916
Combo, Fowler & Holtz	802,687
Combination lock, R. C. Fulton	802,501
Composition of matter for packing, lining, and insulating purposes, F. M. Ekert	802,377
Concentrate, centrifugal, P. H. Adams	802,724
Concrete structures, apparatus for molding, C. Stieler	802,666
Condenser, ammonia gas, A. H. Baer	802,904
Conveying apparatus, A. & J. M. Hall	802,857
Cooking or culinary vessel, L. J. Ellis	802,378
Copy and paper holder for writing, F. G. Anderson	802,546
Corset, apparel, J. Kopp	802,763
Cot and bed, folding, A. Gussard	802,390
Cotton planter and fertilizer distributor, H. B. Wilson	802,722
Crushing machine, A. Cameron	802,842
Culinary utensil, T. Tierney	802,434
Curb, J. F. McCoy	802,772
Current motor, F. E. Marvin	802,767
Curtain rings, making, A. L. Parker	802,824
Dashboard holder, J. W. Yechem	802,543
Dehorner, cattle, C. E. Binnings	802,733
Defeat appliance, B. G. Simmons	802,483
Dental swage, J. R. Combs	802,683
Dentistry, cervix clamp for use in, W. A. Rowe	802,408
Desk attachment, E. A. Creed	802,372
Detector bar, J. T. Hamby	802,639
Die hammering machine, J. A. Horton	802,691
Dimension gage, F. Martin	802,402
Directory, telephone, P. C. Murphy	802,654
Display holder for handkerchiefs, etc., G. W. Ebricht	802,802
Door controller, W. G. Bell	802,552
Door, fire, A. C. Preble	802,700
Dough divider, F. H. Van Houten	802,613
Dough divider, D. J. Hanna	802,640
Draft rigging, draw-bar centering device for railway, J. F. O'Connor	802,469
Drawing and evening machine, S. Birch	802,492
Drilling bit socket, J. S. Lime	802,401
Drilling mechanism, J. A. Scott	802,891
Driving bit, G. T. Duncan, Sr.	802,375
Driving device, reversible, Covell & Baechtel	802,844
Driving mechanism, M. B. Hull	802,694
Dust collector, G. T. Meadon	802,651
Dust pan, W. N. Greer	802,634
Educational appliance, J. H. Fitch	802,807
Egg case, F. A. Purchas	802,884
Electric interrupter or vibrator, J. E. Sealey	802,480
Electric lock, N. W. Webb	802,896
Electric machine, magneto dynamo, E. B. Cutton	802,373
Electric motor, D. C. Jackson	802,451
Electric protective apparatus, ground plate for, F. R. Parker	802,939
Electric telegraph transmission tapes, electromagnetic perforator for perforating, P. B. Delany	802,740
Electric wire conduit, R. W. Lyle	802,577
Electric wire insulator, C. A. Humphrey	802,397
Electrical apparatus, J. E. Sealey	802,413
Electrical distribution, systems of, J. H. Anderson	802,619
Electrolytic apparatus, F. J. Briggs	802,960
Elevator safety device, C. W. Hoffman	802,759
Embroidery, imitation, N. Noel	802,776
Engine, C. Fero, Sr.	802,384
Engines, liquid circulating apparatus for, J. F. McCanna	802,404
Envelope, device for opening, H. Brisacher	802,909
Excavator, W. Ferris	802,925
Expander, ring, A. M. Remington	802,784
Explosion engine, R. H. Scott	802,665
Farm gate, A. J. Story	802,433
Fastener for trunks, etc., spring, E. W. Hawley	802,392
Faucet and measurer, combined, J. E. Warlick	802,895
Felly, C. B. Van Horn	802,612
File, L. C. McNeal	802,585
File, cabinet, M. R. Stapp	802,606
File holder, A. Henry	802,859
Film frames, clamp for printing, B. Day	802,738
Filter, H. H. Colestock	802,555
Filter, W. B. Smith	802,714
Fire alarm system, automatic, G. E. Bewell	802,554
Fire extinguishing apparatus, chemical, J. T. Obenchain	802,821
Fire protection signal system, Nolen & Shepherd	802,875
Firearm, automatic, B. Muller	802,582
Firearm, breech-loading, G. Ellstrom	802,803
Fireproof construction, T. F. O'Call	802,523
Fireproof partition, Depew & McCoy	802,556
Fish hook, T. Evans	802,445
Fishing machine, W. Enright	802,804
Fleshing machine, F. J. Perkins	802,878
Floors, device for the rapid laying and automatic tightening of, A. Van Den Bulcke	802,622
Flower pot, A. Marshall	802,460
Fluid meter valve, T. C. Dunlap	802,801
Fluxing machine, A. Cerruti	802,443
Fork. See Manure fork.	
Formaldehyde generator, W. E. Ramsay	802,596
Fruit quartering machine, J. Goosen, Jr.	802,388
Fuel, manufacturing artificial, J. Kneps	802,516
Furniture brace, G. W. Nall	802,586
Fuse board, plug, W. F. Bossert	802,553
Fuse, electric, F. B. Cook	802,736
Gallows, G. E. Davis	802,845
Game apparatus, Rabbit & Rumpel	802,488
Gas generator, acetylene, Thayer & Reynolds	802,833
Gas producer, J. R. George	802,931
Gas system safety device, G. H. Emerson et al.	802,380
Gears, grinding or polishing, C. Coleman	802,368
Gilder carrier, C. L. Ketcham	802,571
Glass cutting table, J. G. Green	802,633
Glass, field, A. J. Lloyd	802,817
Golf, device for use in playing the game of, W. C. Camp	802,623
Grader, road, N. G. Robinson et al.	802,888
Grate basket, adjustable, B. S. Peindexter	802,825
Grinding and polishing wheel, A. W. Thomas	802,536
Grinding apparatus, W. & G. P. Connor	802,371
Grinding machine, F. Bex	802,731
Grinding mill, J. Rakowski	802,407
Grindstone fixture, C. H. Foster	802,851
Ground strip for protective apparatus, F. B. Cook	802,497
Guard, dust, J. W. Stephenson	802,530
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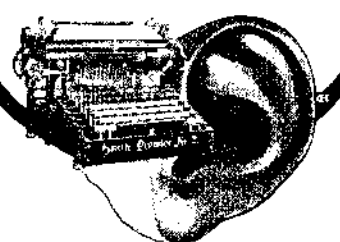
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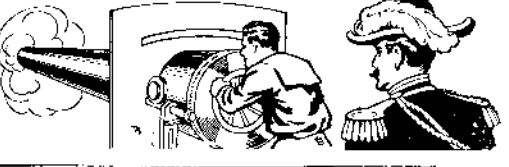


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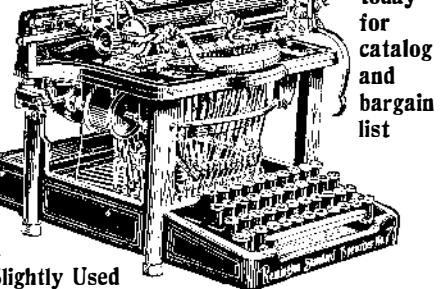
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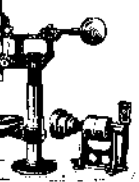
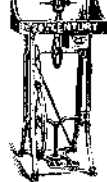
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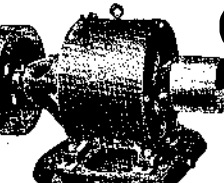



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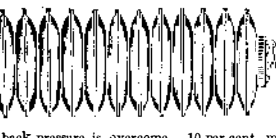
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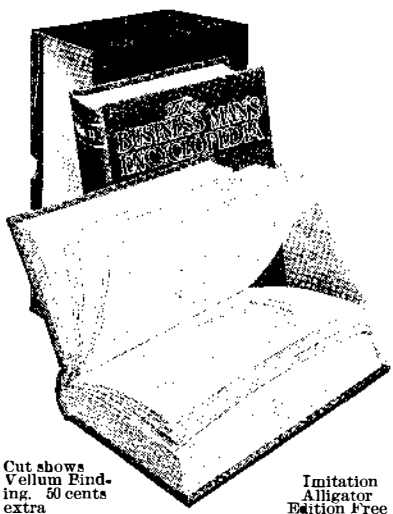
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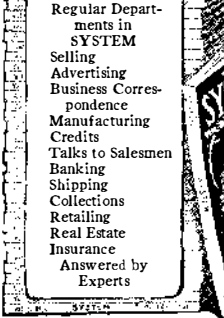
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