Scientific American.

rise and fall of water in inches and fractions of an inch, and provides for an annunciator for indicating at a dis tant point the variations in water level beyond the prescribed imits, and also to indicate in which one of seve ral boilers the water is too high or too low.

A hair crimper has been patented by Dina and Rudolph Jordan, of New York city. It con-sists of two shanks pivoted at one end and connected by a spring clasp at the opposite end, the face of one shank having a groove and the face of the other fitting in the groove, making a device by which the air may be conveniently held in the crimper as long as desirable to form a perfect curl.

A bolt has been patented by Mr. Henry A. Brown, of Toledo, O. It is a round bolt threaded at one end to receive a nut, and having an oblong countersink head, to be received in a countersink or recess of similar form in the tire or other metal work where the bolt is to be used, thus preventing the bolt from revolv-ing while the nut is turned on or off, and avoiding the weakening of the metal by making a round countersink.

A headstall for stock has been patented by Mr. Francis M. Medling, of Rutherford Depot, Tenn. It is so made as to carry a spring with points that res upon the nose of the animal in a way that will not interfere with its ability to graze or drink, but, on attempting to push off the top rail of a fence, or to suck, the points will prick the nose and detertheanimal from accomplishing its object.

A stethoscope has been patented by Mr. Louis D. Radzinsky, of McKeesport, Pa. Its cup is made of soft rubber, in order to be practically a nonconductor of external sounds, and it has a peculiarly constructed tambourine, or drum, whereby the sounds from different regions of the chest or other parts of the body are intensified, the earmuffs being also of soft rubber, with an car canicula of hard rubber or similar material.

An incubator has been patented by Mr. Frank Rosebrook, of Elmira, N. Y. Combined with the boiler is a hot water tank divided by partitions into channels that conduct the water first to the outside of the tank, then back to the center, a system of pipes connecting the hot water tank and the boiler, and water pans resting upon the pipes, making an improved arrangement for the uniform distribution of heat neces sarv for hatching.

A gas heating attachment for reversi ble sad irons has been patented by Mr. Henry C. Fox, of Evansville, Ind. This invention provides a burner alated to give a flame of great intensity without any increased consumption of gas,"and for a more perfect general distribution of the flame over the interior sur face of the several sides to be heated, the device being also applicable to cylinders or other hollow bodies re quiring to be heated on their interior.

A ditching machine has been patented by Mr. John C. Sage, of Gainesville, Ga. It is mounted on a car, with a vertically adjustable crosspiece carry ing plows, with movable carriages and conveyer frame hinged therein, with means for adjusting their lower ends vertically, and fianged conveyer belts and means for rotating them, the machine being calculated for digging ditches, excavating the foundations of house and similar work.

A harness hook has been patented by Mr. John H. O'Donnell, of Winnipeg, Mauitoba, Canada. It is intended especially for use as a check rein hook, the base, by which the hook is secured to the saddle, having at its forward end a lateral notch to receive the free end of a latch hook or open link pivoted to turn in a plane at right angles to that of the hook proper, so the rein cannot be released until the link is adjusted to open position.

A straw-board lining machine has been patented by Mr. Arnold W. Schlichte, of New York city. The mechanism is such that the operator is able to sever the web which constitutes the lining material between each sheet of board after the material has been pasted and pressed to place upon the board, the parts being so arranged that sheets of board of varying size may be used without changing the adjustment of the machine.

A burglar-proof safe has been patented by Messrs. John W. Norris, of Chicago, Ill., and Thomas M. Brintnall, of Maryville, Mo. The invention consists essentially in interlocking the bolt ribs with the safe door by dovetail joints, providing a construction to connect the bolt-carrying devices without the introduction of screws or threaded bolts, and making a firmer and stronger connection between the doors and the bolt-carrying devices.

A watch has been patented by Mr. Domingo T. Garcia, of Guadalajara, Mexico. It has two crown wheels mounted on an arbor in the case, one of the wheels having more teeth than the other, a pinion ging the teeth of both crown wheels, with

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Regin Work

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 References to former articles or answers should give date of paper and page or number of question.
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(1) W. T. T. says : Please oblige an old subscriber with the receipt to prevent awnings and cotton goods from mildewing. Also a receipt to make tents waterproof. A. 1. Use 4 oz. powdered alum and 44 oz. sugar of lead, dissolved in 8 gals. water. When perfect subsidence has taken place, pour off the clear liquid only, and add to it 2 dr. isinglass, previously dissolved in warm water, taking care to mix thoroughly. Steep the goods well, and dry without wringing. 2. In 80 parts of water heated to about 80° C. melt 3 parts of gelatine and 6 of castor oil soap; then add 3 parts gum lac, stirring the liquid until entirely dissolved. Withdraw from the fire, and add to the mixture, little by little, 6 parts of powdered alum stirring all the while The limit thicknes in. forming an insoluble alum soap, which is intimately incorporated with the gelatine and the gum lac. Spread it over the stuff with a bristle brush.

(2) F. P. M. asks how many "crow foot" gravity cells 5 inches by 6 inches it will require to run a 16 candle power incandescent lamp, and how they are to be connected. A. Assuming the cells to give one volt each, and to be of 2.00 ohms resistance. 512 such cells arranged in eight parallel series of 64 each would supply a 16 candle power lamp.

(3) E. C. E. asks: 1. Can you give me good reciperfor liquid stove polish, such as stove builders use ? A. Take of pulverized black lead 1 pound, turpentine 1 gill, water 1 gill, sugar 1 ounce. 2. A recipe for a glossy and quick drying furniture polish not having much color. A. D ssolve 4 ounces best shellac in 2 pints of 95 per cent alcohol; add to this 2 pints of linseed oil and 1 pint of spirits of turpentine; when mixed, add 4 ounces of sulphuric ether and 4 ounces ammonia water; mix thoroughly, shake when used, and apply with a sponge lightly. 3. A safe and quick liquid for cleaning silverware? A. The best thing to use is two teaspoonfuls of ammonia, dis solved in a quart of hot soap suds. 4. A solvent for cellulose. A. Cellulose dissolves completely in an mmoniacal solution of oxide of copper.

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October 5, 1886.

AND EACH BEARING THAT DATE.

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	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar holders and pipe stems, attachment for, W. B. Haas Clamp. See Insulating clamp. Clapp. See Insulating clamp. Clapp. B. H. Bedell. Clip iron and brace for carriages, combined, Bean & Grant Clock, secondary electric, C. A. Hussey Clock, secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer Clothe, apparatus for steaming, C. Coupland Clothes drier, J. V. Fleck Clothes drier, J. V. Fleck Colthes me auport, C. G. Udell Coffin, G. Reynolds. Coloring matter, red, F. Bender Coloring matter, red, F. Bender Convertible table, lounge, and desk, D. Crowley Cork puller, J. A. Hurley. Counterbores, machine for facing, A. Latham Coupling. See Car coupling. Insulating coupling.	\$50,274 \$50,289 \$50,289 \$50,273 \$50,359 \$50,283 \$50,283 \$50,283 \$50,283 \$50,108 \$50,431 \$50,433 \$50,435 \$50,276 \$50,229 \$50,229 \$50,414 \$50,308
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	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar holders and pipe stems, attachment for, W. B. Haas Clamp. See Insulating clamp. Clapp, B. H. Bedell. Clip iron and brace for carriages, combined, Bean & Grant Clock, primary electric, C. A. Hussey Clock, secondary electric, C. A. Hussey Clocks, ease for secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer. Cloths, apparatus for steaming, C. Coupland Clothes drier, J. V. Fleck. Clothes drier, J. V. Fleck. Clothes ine support, C. G. Udell. Coffin, G. Reynolds. Coloring matter, red, F. Bender. Coloring matter, red, F. Bender. Coloring matter, red, F. Bender. Correctible table, lounge, and desk, D. Crowley Cork puller, J. A. Hurley. Counterbores, machine for facing, A. Latham Coupling. Vehicle spring coupling. Pipe coupling. Vehicle spring coupling. Cort actine coupling. Insulating coupling. Cort actine coupling. Coupling. Low coupling. Cow tail holder, J. C. Cady Crank motion, device for passing the dead center of a, J. Curran.	\$50,274 \$50,289 \$50,217 \$50,359 \$50,228 \$50,228 \$50,228 \$50,108 \$50,433 \$50,435 \$50,177 \$50,287 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,197 \$50,276 \$50,197 \$50,276 \$50,290 \$50,414 \$50,308 \$50,414 \$50,114 \$50,114 \$50,114 \$50,417
	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar cutter, E. P. Stewart Clamp. See Insulating clamp. Clamp. See Insulating clamp. Clamp. See Insulating clamp. Clapp. B. H. Bedell. Clop iron and brace for carriages, combined, Bean & Grant Clock, primary electric, C. A. Hussey Clock, scendary electric, C. A. Hussey Clocks, case for secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer Cloth, apparatus for steaming, C. Coupland Cloth, apparatus for steaming, C. Coupland Clothes drier, J. V. Fleck Clothes drier, J. V. Fleck Coloring matter, red, F. Bender Coloring matter, red, F. Bender Coloring matter, red, F. Bender Cork extractor, W. E. Crump, Jr Cork puller, J. A. Hurley Counterbores, machine for facing, A. Latham Coupling. See Car coupling. Insulating coupling. Pipe coupling. Vehicle spring coupling. Cow tail holder, J. C. Cady	\$50,274 \$50,289 \$50,217 \$50,359 \$50,228 \$50,228 \$50,228 \$50,108 \$50,433 \$50,435 \$50,177 \$50,287 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,197 \$50,276 \$50,197 \$50,276 \$50,290 \$50,414 \$50,308 \$50,414 \$50,114 \$50,114 \$50,114 \$50,417
	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar holders and pipe stems, attachment for, W. B. Haas Clamp. See Insulating clamp. Clapp. See Insulating clamp. Clapp. B. H. Bedell. Clip iron and brace for carriages, combined, Bean & Grant Clock, secondary electric, C. A. Hussey Clock, secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer. Clothes drier, J. V. Fleck. Clothes drier, J. V. Fleck. Clothes drier, J. V. Fleck. Coloring matter, red, F. Bender. Coloring matter, red, F. Bender. Coloring matter, red, F. Bender. Coloring matter, red, F. Bender. Coorrign. See Car coupling, Insulating coupling. Pipe coupling. Vehicle spring coupling. Pipe coupling. Vehicle spring coupling. Crank motion, device for passing the dead center of a, J. Curran. Crusher. See Clod crusher. Cultivators, hitching attachment for, G. W. Ply-	350,274 350,289 350,217 350,359 350,228 350,108 350,423 350,433 350,435 350,107 350,205 350,137 350,276 350,137 350,276 350,137 350,276 350,139 350,141 350,114 350,114
	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar cutter, E. P. Stewart Clamp. See Insulating clamp. Clamp. See Insulating clamp. Clapp. See Insulating clamp. Clapp. B. H. Bedell. Clock, scendary electric, C. A. Hussey Clock, scendary electric, C. A. Hussey Clock, scendary electric, C. A. Hussey Clocks, case for secondary electric, C. A. Hussey. Clocks, case for secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer Cloth, apparatus for steaming, C. Coupland Clothes drier, J. V. Fleck Clothes line support, C. G. Udell Coffin, G. Reynolds. Coloring matter, red, F. Bender Coloring matter, red, F. Bender Convertible table, lounge, and desk, D. Crowley Cork cuttactor, W. E. Crump, Jr Cork puller, J. A. Hurley Counterbores, machine for facing, A. Latham Coupling. See Car coupling. Insulating coupling. Pipe coupling. Vehicle spring coupling. Cow atil holder, J. C. Cady Crank motion, device for passing the dead center of a, J. Curran. Crusher. See Clod crusher. Cuttoff valve, F. Schumann	\$50,274 \$50,289 \$50,289 \$50,228 \$50,359 \$50,228 \$50,108 \$50,431 \$50,435 \$50,431 \$50,435 \$50,435 \$50,108 \$50,435 \$50,228 \$50,108 \$50,435 \$50,229 \$50,177 \$50,229 \$50,139 \$50,229 \$50,276 \$50,229 \$50,276 \$50,229 \$50,276 \$50,239 \$50,239 \$50,239 \$50,239 \$50,231 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,239 \$50,235 \$50,239 \$50,235 \$50,231 \$50,235 \$50,231 \$50,235 \$50,231 \$50,231 \$50,235 \$50,231 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,335 \$50,334 \$50,334 \$50,334 \$50,334 \$50,334 \$50,334
	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar holders and pipe stems, attachment for, W. B. Haas Clamp. See Insulating clamp. Claps, B. H. Bedell Clip iron and brace for carriages, combined, Bean & Grant Clock, primary electric, C. A. Hussey Clock, secondary electric, C. A. Hussey. Clock, secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, ease for secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer Clotha apparatus for steaming, C. Coupland Clothes drier, J. V. Fleck. Clothes line support, C. G. Udell Codring matter, red, F. Bender Coloring matter, red, F. Bender Coloring matter, yellow, F. Bender Corrwertible table, lounge, and desk, D. Crowley Cork extractor, W. E. Crump, Jr Cork puller, J. A. Hurley. Counterbores, machine for facing, A. Latham Coupling. See Car coupling. Insulating coupling. Pipe coupling. Vehicle spring coupling. Cow tail holder, J. C. Cady Crask motion, device for passing the dead center of a, J. Curran. Craske. E. Horton Crusher. See Clod crusher. Cultivators, hitching attachment for, G. W. Ply- mell	\$50,274 \$50,289 \$50,289 \$50,228 \$50,359 \$50,228 \$50,108 \$50,431 \$50,435 \$50,431 \$50,435 \$50,435 \$50,108 \$50,435 \$50,228 \$50,108 \$50,435 \$50,229 \$50,177 \$50,229 \$50,139 \$50,229 \$50,276 \$50,229 \$50,276 \$50,229 \$50,276 \$50,239 \$50,239 \$50,239 \$50,239 \$50,231 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,237 \$50,239 \$50,235 \$50,239 \$50,235 \$50,231 \$50,235 \$50,231 \$50,235 \$50,231 \$50,231 \$50,235 \$50,231 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,235 \$50,335 \$50,334 \$50,334 \$50,334 \$50,334 \$50,334 \$50,334
	Change gate, J. M. Bishop Chest. See Medicine chest. Chimneys, etc., apparatus for climbing, J. Brown. Cigar cutter, E. P. Stewart Cigar holders and pipe stems, attachment for, W. B. Haas Clamp. See Insulating clamp. Clasp, B. H. Bedell Clops, B. H. Bedell Clock, primary electric, C. A. Hussey Clock, scase for secondary electric, C. A. Hussey. Clock, secondary electric, C. A. Hussey. Clock, secondary electric, C. A. Hussey. Clock, secondary electric, C. A. Hussey. Clocks, electric winding device for, Weisgerber & Himmer Cloth, apparatus for steaming, C. Coupland Clothes drier, J. V. Fleck Clothes line support, C. G. Udell Ogfhe mill, F. Krater Coloring matter, red, F. Bender Coloring matter, red, F. Bender Corrwertible table, lounge, and desk, D. Crowley Cork extractor, W. E. Crump, Jr Cork puller, J. A. Hurley Counterbores, machine for facing, A. Latham Coupling. See Car coupling. Insulating coupling. Pipe coupling. Vehicle spring coupling. Cow tail holder, J. C. Cady Crask motion, device for passing the dead center of a, J. Curran. Crase, E. Horton Crusher. See Clod crusher. Cultivators, hitching attachment for, G. W. Ply- mell Cutter. See Clogar icutter. Feed cutter. Weed cutter. Derrick, G. Rounds	\$50,274 \$50,289 \$50,289 \$50,228 \$50,228 \$50,108 \$50,228 \$50,108 \$50,433 \$50,435 \$50,175 \$50,256 \$50,177 \$50,275 \$50,175 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,187 \$50,276 \$50,139 \$50,129 \$50,139 \$50,308 \$50,308 \$50,314 \$50,314 \$50,417 \$50,214 \$50,314 \$50,417 \$50,216 \$50,319 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,314 \$50,417 \$50,324
	Change gate, J. M. Bishop	350,274 350,289 350,217 350,359 350,228 350,108 350,423 350,431 350,435 350,105 350,137 350,237 350,276 350,177 350,276 350,139 350,213 350,114 350,114 350,114 350,114 350,114 350,213 350,213 350,213
	Change gate, J. M. Bishop	\$50,274 \$50,289 \$50,289 \$50,217 \$50,359 \$50,228 \$50,217 \$50,359 \$50,228 \$50,108 \$50,435 \$50,435 \$50,108 \$50,435 \$50,177 \$50,237 \$50,205 \$50,177 \$50,205 \$50,173 \$50,276 \$50,237 \$50,276 \$50,173 \$50,276 \$50,230 \$50,213 \$50,214 \$50,314 \$50,314 \$50,114 \$50,114 \$50,114 \$50,319 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213
	Change gate, J. M. Bishop	\$50,274 \$50,289 \$50,289 \$50,217 \$50,359 \$50,228 \$50,228 \$50,228 \$50,228 \$50,108 \$50,433 \$50,433 \$50,177 \$50,287 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,177 \$50,276 \$50,270 \$50,155 \$50,290 \$50,213 \$50,314 \$50,114 \$50,417 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 \$50,213 <td< td=""></td<>

scape wheel on its shaft, with other novel features,	
making a watch with very few parts and designed to be	
very accurate.	

A clock has likewise been patented by the same inventor, whose construction is based upon, the principle of differential gearing. It has but few parts, two toothed wheels being mounted on the same shaft, one fixed and the other loose, an escapement anchor pallet engaging with both wheels, the loose es capement wheel having part of its face cut out and a circular scale formed around the opening, with other novel features, the use of the usual multiplying train being dispensed with.

A parasol for children's carriages has been patented by Mr. John McAul ffe, of Jersey City, N. J. A noted and runner is held on a clamp attachable on the stationary rod fastened to the carriage, a stick with a notched collar supporting the braces, a cord from the upper end of the stick passing through the runner, and a spring on the stick engaging with a slot in the runner, so the parasol can be supported in an angular position, and opened and closed from the top or outside.

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,	Belting, Hose, and Packing of all kinds. Manufac- turers' supplies generally. Greene, Tweed & Co., 83 Chambers St., N. Y.	B B B
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A clergyman, after years of suffering from that loathsome disease. catarrh, and vainly trying every known remedy at last found a prescription which completely cured and saved him from death. Any sufferer from this dreadful disease sending a self-addressed stamped envelope to Dr. Lawrence, 212 East 9th St., New York, will receive the recipe free of charge.

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Bag turning machine, S. T. Lockwood	ford
Band for packages, I. E. Palmer 350,149	Egg case, S. D. G. Niles 350,442
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of, L. A. W. Desruelles 350,297	Engine. See Rotary engine. Steam engine. Va-
Batteries, utilization of the residual liquids from,	por engine.
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