bracket or arms and the springs, substantially as and for the purposes hereinbefore set forth. 4th. The lubricating roller formed and adapted to receive the supply of lubricant at a point intermediate between its two ends, and right and left screw-threaded or grooved respectively from that point towards its ends, as and for the purposes

No. 24,731. Combination in a Two-Wheeled Cart. (Combination dans un Voiture à Deux Roues.)

Nicholas W. Shorman and James R. Dickey, Coldwater Branch, Mich., U.S., 13th August, 1886; 5 years.

Mich., U.S., 13th August, 1836; 5 years.

Claim.—1st. In a two-wheeled vehicle, the combination, with a shaft bar having an opening, as described, of a spring mounted in said opening, substantially as and for the purpose set forth. 2nd. In a two-wheeled vehicle, the combination, with slotted cross-bar, spring mounted on loose links or shackles therein, and spring bar, of the seat and seat bars, the latter being secured to the shafts by loose links, and to the spring bar by knuckle joints, as set forth. 3rd. The combination, with the spring, spring bar and seat bar mounted thereon, of the spring bar, as shown and for the purpose set forth. 4th. In a sulky, the combination, with the stotted shaft bar and spring mounted loosely therein, of the spring bar surmounting said spring, the seat bars, knuckle jointed to the spring bar and loosely connected to the shafts, and the foot rest strap connected at one end to the seat, and at the other to the front of the spring bar.

No. 24,732. Sheathing and Lath Machine. (Machine & Bosserie et a Latte.)

Henry Coburn, John H. Murry and Addison A. Adair, Indianapolis, (assignces of Edwin M. Byrktt, Michigan City.) Ind., U. S., 13th August, 1886; 5 years.

Henry Coburn, John H. Murry and Addison A. Adair, Indianapolis, (assignees of Edwin M. Byrkit, Michigan City.) Ind., U. S., 13th August, 1886; 5 years.

Claim.—1st. The mandrel menclosed in the box b, and sleeve clamped upon such boxing and secured by suitable means, the driving-pulley p mounted on one end of such mandrel, and the nuts n working upon the other end of such mandrel, and the nuts n working upon the other end of such mandrel, and the nuts n working upon the threaded end of such mandrel, and the nuts n working upon the threaded end of such mandrel, and the nuts n working upon the threaded end of such mandrel, and the nuts n working upon the threaded end of such mandrel, and the nuts n working upon the threaded end of such mandrel, and the nuts n working upon the threaded in halves, the two parts secured together by suitable screws or bolts, the loosening of which will allow the mandrel and its boxing to be adjusted along the line of such sleeve, substantially as described. 3rd. A mandrel having a driving-pulley mounted upon one end, and a revolving toul upon the other, enclosed in a suitable boxing in which the mandrel revolves, the boxing confined in a sleeve provided with means of clamping the sleeve upon the mandrel, without interfering with the revolution of the mandrel in its boxing, all combined substantially as described. 4th. The frame f carrying the horizontal shaft s. h, the cross-piece A, threaded to receive the screw-rods s. c. on either end, the garred wheels g, g: mounted so as to engage with each other, and operate the screw-rods s. c., when the shaft s. h, is rovolved, whereby the cross-piece A, and the mechanism connected the such central cross piece h, the sleeve I necessing such boxing, the driving-pulley p mounted upon the upper cut thereof, the saws s mounted to such central cross piece by the screw-rods s. c., when the driving-pulley p mounted upon the upper cut driven having a movement in a vertical plane, all combined substantially as described. 5th. The framework k, provided sheathing and istin machine, a transework naving a table upon which the material rests, a scries of saws of different diameters removably mounted on mandrels oppositely inclined to each other, and adjustably connected to a portion of the frame, so as to be raised or lowered by means of suitable screw and scar mechanism, a shaft beneath the table having a bearing at one end, in a support movable vertically in the side of the frame, with means for securing the same at any desired point, and supported near the centre by means of a hanger, also allowing a vertical adjustment of such shaft, a series of saws mounted upon such shaft at right angles to its length, and passing up through openings in the table to cut the kerf in the under side of the sheathing material, with suitable screw mechanism for lowering such under cutting saws, all combined substantially as described. The in a sheathing and lath machine, a framework having a table for supporting the material near its centre, a series of saws for cutting doctailed grooves in one side of the sheathing arranged apon mandrels oppositely inclined to each other, and a series of saws mounted upon a borizontal shaft beneath the table, for cutting the kerfs upon the other side of the material, both sets of saws adjustable vertically and horizontally, and operating upon both sides of the material at the same time, in combination with suitable driving mechanism, substantially as described.

No. 24,733. Dental Cotton Holder.

(Porte Coton de Dentiste.)

Arthur C Runyan, Bangor, Me., U.S., 14th August, 1886, 5 years

Claim.—In a cotton-holder for destists' uso, the combination of a tube having perforated fustening plates, and having screw-threaded ends, caps fitting upon the screw-threaded ends, and having mited sides and central perforations, and a coiled spring within the tube having followers at both ends, the cotton being confined between the followers of the spring, and the perforated screw caps, as and for the purpose shown and set forth.

No. 24,734. Hub Runner.

(Patin de Voiture à Moyeu.)

Harold Holland, Lynn, Mass., U.S., 14th August, 1886; 5 years.

Claim.—1st. In a device for mounting a carriage or wheeled vehicle on runners, the combination of the axie A, clip M and clamp N, said clamp having the flange C, provided with the slot t, for receiving a stud or projection on the runner, substantially as described. 2nd. The runner B, provided with the hub K, snoo C and stud P, combined and arranged to operate substantially as set forth. 3rd. The axie A, provided with the clip M and clamp N, said camp having the slotted flange G, in combination with the runner B, provided with the hub K, stud P and key A, substantially as described. 4th. In a device for running a carriage or wheeled vehicle on runners, the hub K mounted in the runner B, outside of a vertical line drawa through the shoe C. in combination with the axie A, and means for securing the runner to the axie, substantially as set forth.

No. 24,735. Hub Runner.

(Patin de Voiture à Moyeu.)

Harold Holland, Lynn, Mass., 14th August, 1886, 5 years.

Harold Holland, Lynn, Mass., 14th August, 1886. 5 years.

Claim.—1st. In a device for mounting a wheeled vehicle or carriage on runners, the axie A, provided with the clip M and bolt L, said bolt being adapted to be projected and secun.d in nosition to engage ab on said axie, and also to be withdrawn and secured in such position, as to prevent it from engaging said hub, substantially as described. 2nd. In a device for mounting a carriage or wheeled vehicle on runners, the clamp N, provided with the stud d, flange Q and holt L, in combination with the axie A, chip M and nuts v, v, substantially as set forth. 3rd. In a device for mounting a carriage or wheeled vehicle on runners, the hub K provided with the socket S. for receiving a boit mounted on the axie of the carriage, to prevent said hub from entirely revolving on said axie, when the carriage is mounted on runners, substantially as described. 4th. In a device for mounting a carriage or wheeled vehicle on runners, the hub K, provided with the socket S. in comonation with the axie A, provided with the clip M, clamp N and bolt L, combined and arranged to operate substantially as set forth. 3rd. In a device for mounting a carriage or wheeled vehicle on runners, the hub K, provided with the flange Q, stud d and key k, the bolt L provided with the holes 10, 12, and the hub K provided with the socket S, constructed, combined and arranged to operate, substantially as described.

No. 24,736. Incubator. (Incubateur.)

Jacob R Meschter, Philadelphia, Pa., U.S., 14th August, 1886: 5

Jacob R. Meschter, Philadelphia, Pa., U. S., 14th August, 1886; 5 years.

Claim.—Isr. In an incubator, a regulator to control the temperature, consisting of hot water receptacle \$\text{E}_3\$, supported in, and surrounded by the water in the hot water circulator, a U-shaped vessel having legs \$\text{G}\$, o mercury \$\text{G}_3\$, a ranifed atmosphere in leg \$\text{G}\$, above the mercury and exposed to the atmosphere, a burner to keep the water warm, a valve to control the flame of said burner, and devices controlled by the height of the column of mercury, to automatically actuate said burner valve, substantially as and for the purpose specified. 2nd. In an incubator, the combination of a hot water circulating boiler, a burner to heat said boiler, a valve to control the size of the flame from said burner, and a regulator, automatically operated by the varying changes in joint temperatures of the atmosphere externor to the incubator, and water in said boiler, to control said valve, said regulator consisting of a balanced lever, column of mercury, a rarified atmosphere supporting said mercury, and a receptacle to contain said increary and rarified atmosphere, supported in water of the temperature of that in the circulating boiler, substantially as and for the purpose specified. 3rd. In an incubator, the boiler \$A\$ having chambers \$B\$ and \$B_1\$, and consisting of hollow floors and wails \$b\$, passages \$b_1\$, \$b_2\$, pipes \$C\$, apertures \$c\$, and means to create a circulation of the holt water, substantially as and for the purpose specified. 4th. In an incubator, the boiler \$A\$ having chambers \$B\$, and consisting of hollow floors and wails \$b\$, passages \$b_1\$, \$b_2\$, pipes \$C\$, \$b_2\$, having nozizle \$c\$, and means to create a circulation of the holt water, substantially as and for the purpose specified. 5th. In an incubator, the combination of chambers \$B\$, \$B_1\$, and doors \$I\$ to close the latter of said chambers, and make it comparatively air-tight, substantially as and for the purpose specified. 5th. In an incubator,