Claim.—1st. The improvement in the art of converting heat energy into electrical energy, as hereinbefore described, which consists in imparting heat energy to a liquid containing conducting bodies, and thereby causing a development of chemical and electrical energy. 2nd. The improvement in the art of converting heat energy into electrical energy, which consists in imparting heat energy to a liquid containing conducting bodies, and thereby causing a development of chemical energy and electrical energy, the said electrical energy being substantially coextensive with the heat energy into electrical energy, which consists in imparting heat energy into electrical energy, which consists in imparting heat energy to a liquid containing two separate conducting bodies, and thereby causing a development of chemical energy between said liquid and one of said conducting bodies corresponding to the heat energy so imparted. 4th. The improvement in the art of converting heat energy into electrical energy, which consists first in combining a liquid, and immered therein separate conducting bodies, the chemical affinities of the elements of which liquid are mutually satisfied at or below a certain temperature, at which temperature the liquid as substantially without action of ment of chemical energy pottween sata future and who as an extracting bodies corresponding to the heart energy sint ocception, the art of converting heat energy into electrical superior conducting badies, the chemical affinition of the clements of which liquid are mutually satisfied at or below a certain temporature, at which temporature the liquid is substantially without action on the conducting bodies, and, second, applying heat to said liquid, whereby the same is decomposed and an element thereof liborated, which clement chemically reasts on one conducting sody, and so generates an electrical current in a circuit including said conducting entropy and the same is decomposed and an element thereof liborated, which clement chemically reasts on one conducting said conducting chemical contents of said cell, which consists in abstracting heat energy into electrical energy, containing the combination of action of heat on the contents of said cell, which consists in abstracting heat from the liquid in said cell. 6th. An apparatus for converting heat energy into electrical energy, containing the combination of a versol, two bodies of conducting material and a liquid, the said liquid being in said vessel, and a means of heating said liquid, the said liquid at normal temporature being substantially districted the said liquid said said liquid said said liquid said said liquid said said liquid, the said liquid at mornal temporature being substantially without chemical action upon either of said bodies and liquid, the said liquid said said said said saceribed. 7th. An apparatus for converting heat energy into electrical energy, containing the combination of a horizotically without chemical action upon either of said bodies, but when heated energy into electrical energy, containing the combination of a versol, a solid body of conducting material and a liquid, the said liquid and sodies being in said vessel, and a means of heating said liquid. the said liquid said the said said said and an own of the said said said and an

No. 24,862. Railway Car-Coupler. (Attelage de Chars de Chemin de Fer.)

William H. Whiteside, Sandwich East, Ont., 3rd September, 1836;

Claim.-A car-coupling having spring I, pin D, spring barrel C,

up G, latch bar or slide B, bolt R, which passes through the slot in for the purpose hereinbefore set forth.

No. 24,863. Cast Metal Pulley or Wheel for Harvesting Machines, etc. Poulie ou Roue en Fonte pour Moissonneuses, etc.)

The Massey Manufacturing Company, Toronto, Ont., (assignee of William N. Whiteley, Springfield, Ohio, U.S.), 3rd September, 1886; 5 years.

1836; 5 years.

Claim.—1st. A wheel for harvesters and other purposes, constructed of east metal, having the rim divided in one or more places, with the ends diverging from the circle of the wheel, and under permanent stress by being forcibly bent and held in mostion coincident with said circle, substantially as described and for the purposes specified. 2nd. A pulley or other wheel having a plain face and constructed of east metal, having the rim divided in one or more places, with one end of greater, and the other end of less radius than the circle of the wheel, and under permanent stress by being forcibly brought together and secured, substantially as described and for the purposes set forth.

No. 24,864. Sliding Door Latch.

(Loquet de l'orte en Coulisse.)

James T Gordon, John H. Hamilton and Samuel Barrett, Concord, N H., U.S., 3rd September, 1886, 5 years.

N. H., U.S., 3rd September, 1836, 5 years.

Claim.—1st In a sliding door-fastening, the combination with an eye plate secured to the door, of a swivelled latch having a perforated finger adapted to automatically enter the eye in said ever plate, while said door is sliding shat, and a retary dog pivoted to the latch-housing and adapted to automatically fall against a shoulder, formed upon said swivelled latch, and secure said locking mechanism, substantially as and in the manner set forth. 2nd. In a car door fistening, the combination, with the housing, of the cap-nicee having perforated ears, the swivelted latch provided with a perforated enadapted to be swing up by the latch between the ears of said cap piece, to form a coincident opening for the seal-wire and the pivoted weighted dog for holding up said latch, as set forth. 3rd. A device for faste ing car-doors consisting of the housing E, the pivoted weighted dog II, the swivelled latch F provided with shoulder A, perforated finger fanil perforate ear f3, the openliate D and the plate piece E, having ears e. c, perforated to form a coincident opening with that in the car 30 of the latch F, or the ear h of the arm H1, for receiving the seal-wire, as set furth. receiving the scal-wire, as set furth.

No. 24,865. Double-Acting Rotary Gig.

(Laineuse Rotatorie à Double Action)

John Shearer, Proston, and Heur, W. Karch, Hespeter, Oat , 3rd September, 1885, 5 years.

September, 1885, 5 years.

Claim.—1st. A gig having a frame constructed so as to completely enclose the teasic-cylinder, substantially as and for 'be purpose specified. 2nd. A gig in which the feeding-rollers are driven from the main sh-ft of the machine by a system of bevel-gear, substantially as and for the purpose specified. 3rd The spindle o, journalled in brackets on the frame A, and driven from the shaft G by the spurpinions II, spur-wheel L and bevel-pinions m. and U, in combination with the bevel-pinions m. situated at one end of the shaft o. and arranged to mesh with the bevel-pinions p, on the end of the spindle of the feed-roller a, substantially as and for the purpose specified. 4th. The spindle opurnalled in brackets on the trime A, and driven from the shaft G by the spur-pinions II, spur-wheel L and bevel-pinions II and U, in combination with the bevel-pinion I, situated at the other end of the shaft o and arranged to mesh with the bevel-pinion n, on the end of the feed-roller C, substantially as and for the purpose specified. 5th. A lever P having a forked end q, arranged to fit into a recess in the collar r, substantially as and for the purpose specified. 6th. A friction strap R passing over the pulley Q, on the end of the roller a or b, and connected to the jaws of the lever S, in combination with the thumb-screw t, arranged to adjust the lever S on the quadrant T, substantially as and for the purpose specified.

No. 24,866. Middlings Purifier.

(Epurateur des Gruaux.)

James Huxtable, Horning's Mills, Ont., 3rd September, 1886, 5 years.

Claim.—1st. In a sieve provided with a brush or bar for cleaning its surface, the combination of a dovice arranged to withdraw the brush or bar from the surface at certain prearranged intervals, substantially as and for the purpose specified. 2nd. A pi-oted knocker G, in combination with traveiling brushes B, substantially as and for the purpose specifical

No. 24,867. Bed Spring. (Ressort de Sommier)

Samuel K. Butterfield, Swanton, Vt., L. S., 3rd September, 1886; 5

Claim.—A connecting-link for bed-springs consisting of a single piece of wire, bent to form the three curves E, D E, overlapping and crossing one another, as shown, and having the corners of said overlapped and crossed parts turned down, to form the loops H in planes, at right augles to the horizontal oblong loops F, as and for the purpose herein shown and specified.

No. 24,868. Shaving Apparatus.

(Appareil pour Raser.)

Andrew Partridge and Dennis F. Sweeney, Springfield, Mass., U. S., 3rd September, 1836: 5 years.

Claim-Ist. The within-described improved shaving apparatus