276 THE CANADIAN PAT bursted in connection with steam through a body of incandescent or highly-heated fuel, whereby it comes into intimate and direct con-tact with said fuel and docomposition and recompositionare thereby effected, and the natural gas and steam and hydroarbons are con-verted into a fixed illuminating gas. 13th. In connection with the above described process of converting natural gas into an illumina-ting gas, by passing it through a bed of highly-heated fuel, the me-thod of introducing the natural gas to the bed of fuel by first passing steam through the bed of fuel, and afterwards passing through said fuel the natural gas and shuting off the steam, as herein described and for the purpose set forth. 14th. The process above described of manufacturing gas, which consists in converting natural gas of vary-ing quality into an illuminating gas of improved candle-power, by passing natural gas together with steam through a body of incandes-cent or highly-heated fuel, whereby it comes into intimate and direct contact with said fuel and decomposition and recomposition are thereby effected, and then passing the gases thus formed through a heated fixing-chamber or superheater and natural gas and steam be-come converted into a fixed illuminating gas of improved candle-power. 15th. The process above described of manufacturing gas, which consists of converting natural gas is onverted into il-luminating gas of the desired candle-power, by passing the natural gas through a body of incandescent carbonaceous fuel which has been highly heated by internal combustion, whereby decompositions ane effected, and the natural gas is onverted into a fixed illuminating gas. 16th. The process above described of manu-facturing gas, which consists of converting natural gas of varying quality into illuminating gas of the desired candle power, by passing the natural gas together with steam through a body of incandescent carbonaceous fuel, which has been highly heated by internal com-bustion, whereby decompositions ane effected and the nat

## No. 26,573. Washing Machine. (Machine & Laver.)

Narcisse Leger, St. Isidore, Ont.. 2nd May, 1887; 5 years.

Marcisse Leger, St. Isidore, Ont.. 2nd May, 1887; 5 years. Claim. -1st. In a washing machine, the combination of the spindle D, having the claws cr secured to its end, with the bevel pinion E and the bevel wheel F journalled in the standards C and G, substan-tially as herein shown and described. 2nd. The combination of the spindle D, having the claws cr fixed into its end, the shoulder  $f_1$  and the groove cr formed in it, with the spring H, pinion E having in its eye a key fixed to slide in the groove cr and the bevel wheel F hav-ing the hand lever dt and journalled in the standards C and G at-tached to the hinged cover B, as shown and described.

## No. 26,574. Process and Apparatus for Dry-ing Various Materials. (Procédé et Appareil pour Sécher Divers Objets.)

Ing various Materials. (Proceed et Appareil pour Sécher Divers Objets.) John H. Lorimer, Philadelphia, Penn., U.S., 2nd May, 1887; 5 years. Claim.-ltt. The herein described process for treating a textile material to be tinted, bleached, or disinfected, which consists in causing the material to be pussed back and forth through a closed chamber, and exposed to strong currents of air impregnated with a coloring, bleaching, or disinfecting reagent in a gaseous, or finely divided condition, which substances are drawn or forced directly through the material to be treated, substantially as and for the pur-pose specified. 2nd. The herein described process for treating a material to be tinted, bleached, or disinfected and dried, which con-sists in causing the material in a wet or moist condition to be passed back and forth through a closed chamber, and exposed to strong cur-rents of air, impregnated with a coloring, bleaching, or disinfecting reagent, which substances are drawn or forced directly through the material to be treated, and the action being continued sufficiently long to thoroughly dry the said material, substantially as and for the purpose specified. 3rd. A close drying chamber, through which a drying medium is caused to circulate, in combination with two end-less aprons adapted to lie close together to hold the material to be dried and arranged to pass back and forth within the drying chamber, the aprons being brought outside the chamber at two places, one to form the feeding and one to form the discharging parts thereof, whereby the goods to be dried and caused to not thereon, the drying me-dium being the vehicle by which the fluid or gas is brought into con-tact with the material to be treated and dried, substantially as and for the purpose specified. Ath. The combination of the endless belts, and provided with openings with a fan or blower to cause a croualtion of air through said drying chamber, the two endless belts or aprons, guiding rollers therefor to guide asid aprons back and forth in said John H. Lorimer, Philadelphia, Penn., U.S., 2nd May, 1887; 5 years.

## No. 26,575. Starting Device for Tramway and other Vehicles. (Appareil de Mise en Marche des Voilures de Tramway et autres.)

John Gilmore and William R. Clark, London, Eng., 2nd May, 1887; 5 years.

5 years. Claim.-1st. The combination, with a draw-bar of train, car, or other vehicle, of a rocking bar, a pawl carried in any suitable part of the frame, the said pawl engaging with a ratchet wheel to or form-ing part of carrying wheel or wheels, substantially as described. 2nd. The guiding of such a pawl by means of a pivotted cam guide, so that it engages with the ratchet wheel in the upward travel and back clear of the ratchet wheel on its downward travel, substantially as described. 3rd. The combination, with the draw-bar so fitted, of a locking apparatus operated by a for treadle at the pleasure of the starting gear out of operation until released by the action of the driver, substantially as described.

## No. 26,576. Hollow Ware, such as Vases, Boxes, etc. (Uleusiles tel que Vases, Boites, etc.)

William H. Hoyt, Stamford, Conn., U.S., 2nd May, 1887; 5 years.

Claim.—lst. As a new article of manufacture, hollow-ware, made of vegetable pith, substantially as described. 2nd. A vase or other hollow article, made of the pith of corn stalks, the pith being cut in