### No. 29,811. Toilet and Wrapping Paper.

(Papier de latrine et à enveloppe.)

Seth Wheeler, Albany, N.Y., U.S., 2nd September, 1888, 5 years.

Claim.—A roll of toilet or wrapping paper containing lines of weakness, each of which is made up of perforations plainly indicating the position of the line, combined with incisions to increase the weakness of the line and avoid litter, substantially as described.

#### No. 29,812. Roll for Iron Rolling Mills,

(Rouleau pour laminoir.)

Arthur W. H. Collard, Pittsburgh, Penn., 2nd September, 1888; 5

Claim.—1st. In a roll for metal rolling, an interior central portion formed of brick or earthen material, and the outer portion of metal which incloses the central portion, substantially as and for the purposes described.—2nd. The roll formed of an outer portion of metal, and a center piece of brick material having necks a and ar formed at its extremities, substantially as and for the purposes set forth,

#### No. 29,813. Adjustable Wrench. (P Wire-Twisting (Pinces variables à tortiller le fil de fer )

Charles E. Wintrode, Huntington, Ind., U. S., 2nd September, 1888; 5 years.

5 years.

Claum.—1st The combination of a main casting provided with arms forming one half of the jaws, and an adjustable casting having projections corresponding with the arms and terming the other half of the jaws placed on the main casting, and means for holding the adjustable easting in any desired position, whereby the jaws are adapted for twisting wires of different thicknesses, substantially as set forth. 2nd. The combination of the casting A, provided with the arms B forming one half of the jaws, the adjustable easting k which is privated upon the casting A, and which is provided with projections which form the other half of the jaws, and a means for holding the easting F in any desired position, substantially as described.

## No. 29,814. Nail Plate Feeding Machine.

(Appareil à alimenter les machines à clous.)

Alfred B. Trudel, Montreal, Que , 2nd September, 1888; 5 years.

Alfred B. Trudel, Montreal, Que, 2nd September, 1883; 5 years.

Claim—1st. In a nail plate feeding apparatus, the combination, with the feed cylinder rocker shaft immediately under same, and means for rocking such shaft, of pulley B mounted on rocker shaft, and straps E2, E3 secured on cylinder and attached to sides of pulley at points below the axis of rotation of the shaft, all as herein set forth. 2nd. The combination of the pulley B mounted on rocker shaft. A, and formed with hub, web, and segmental flunges or peripheries, and the bar D to which ends of straps E2, E3 are attached, all as herein set forth. 3rd. The combination, with the cylinder t, and double cam F for raising and lowering same, of the rest G and renewable bearing surface H, as and for the purpose described, 4th. The combination, with the cylinder E of the nose pieces K, K belted thereto, as herein described.

# No. 29,815. Fire Ladder and Fire-Escape Combined. (Echelle-sauveteur d'incen-

William Davison, London, Eng., 2nd Soptember, 1888. 5 years.

William Payrion, London, Eng., 2nd Soptemoer, 1898. 5 years.

Claim.—The combination, with the body A, the extension J thereof, the shalt D attached to said body, the wheels B mounted upon said shaft D, and the springs E attached to said body, of the ladder F attached to the said body; the struct of, G attached to said body and said ladder, the movable ladder N, the cage R, the tube L and the roll M working in said tube, and means, substantially as specified, for extending said body for extending said ladders, and for raising and lowering said cago, all substantially as and for the purpose set footh.

### No. 29,816. Process and Apparatus for the Manufacturing of Gas for Heat-ing and Illuminating and for the Production of Cyanogen or some of its compounds. (Procede et appareil de production du gas d'éclairage et de chauffage et du cyanogene ou quelques uns de ses composes.)

Samuel R. Dickson, New York, N. Y., U. S., 5th September, 1888, 5

Claim.—1st. The herein described process for producing combus-tible gas, as carbonic exides and hydrogen and examogen, or a com-pound thereof, constring of the simultaneous introduction of the following elements, to wit steam, air, finely divided carbon and al-kali, into a heated chamber, the forcible mixing of said elements, and the simultaneous decomposition and combination of said elements to the simultaneous decomposition and combination of said elements to produce in said chamber the gas and the cyanogen or compound thereof, substantially as set forth. 2nd. The herein described process for producing combustible gas, as carbonic axide and hydrogen and cyanogen, or a compound thereof, by the climination of nitrogen from the nitrogen-bearing material, consisting of the introduction of the nitrogen-bearing material into a heated chamber, and foroibly disseminating into and through the chamber pulverized carbon and an alkali, substantially as set forth. 3rd. The herein described process for producing combustible gas, as carbonic oxide and hydrogen, and cyanogen or a compound thereof, by the elimination of nitrogen from the introgen-bearing material, consisting of the introduction of the mitrogen-bearing material into a heated chamber, and foreibly spraying into and through the chamber pulverized carbon and an alkali by a jot of steam, substantially as set forth. 4th. The herom described process for producing combustible gas, as carbonio oxide, and hydrogen and cyanogen, or a compound thereof, consisting of the simultaneous introduction of the following elements, to wit steam, air, finely divided carbon and alkali, into a heated chamber, the forcible mixing of said elements, the simultaneous decomposition and recombination of said elements, the simultaneous decomposition and recombination of said elements, the produce in said ohamber the gas and the cyanogen or compound thereof, and the passing of said gas through incandescent carbon, substantially as set forth. 5th. The herein described process for producing combustible gas, as carbonic oxide and hydrogen, and cyanogen or a compound thereof, consisting of the simultaneous introduction of the following elements, to wit steam, air, finely divided earbon and alkali, into a heated chamber, the forcible mixing of said elements, the simultaneous decomposition and recombination of the elements to produce in said chamber, the growing of said gas through meandescent carbon and through a carburetting retort substantially as and for the purposes described. 6th. In an apparatus for the manufacture of gathe combination, with a furnace chamber, of a spraying and mixing devise, a second furnace compartment above and communicating with the first, a carburetting retort within and heated by said second furnace chamber, and communicating at its upported the with, and a collecting chamber for receiving solid material from the first chamber, substantially as set forth. 7th. In an apparatus for the manufacture of gas, the combination, with a furnace chamber, of an injector, a second furnace compartment above and compartment communicating therewith at the upper end, and adapted to be charged with refractory material, and hydrocarbon, as described, and a collecting chamber for receiving solid material from the first chamber, and supply pipes for the injector, substantially as set forth. 8th.

### No. 29,817. Bed Attachment.

(Disposition aux couchettes )

Henry S. Allen, Toronto, Ont., 5th September, 1888; 5 years.

Claim.—The back support C hinged to the frame A. A. and held in position by the pawls D. and the ratchets E. as hereinbefore described and for the purpose set forth-

### No. 29,818. Button-Hole Attachment Sewing Machines. (Appareil à faire les boutonnières pour machines à coudre,1

Henry J. Williams, New York, N. Y., U. S., 5th September, 1888; 5

Henry J. Williams, Now York, N. Y., U. S., 5th September, 1883; 5 years.

Claim.—1st The combination of the frame plate, the feed plate, the rack secured thoreon, a pinion mounted in the frame plate, the driving wheel having ratchet teeth in its periphery, and cams or wivers alternately set upon its opposite sides, a lever vibrated by the driving wheel, connections between the lever and the feed plate for giving the latter a vibrating movement, and connections between the lever and pinion that engage with the rack for giving the feedplate a longitudinal movement, substantially as set forth. 2nd. The combination of the frame plate, the driving wheel having teeth in its periphery, and cams or wipersalternately set upon its opposite sides, the vibrating lever in operative connection with the driving wheel, a pinion mounted on the frame plate operatively connected with the vibrating lever, the rack on the feed plate with which the pinion meshes, and connections between the vibrating lever and the feed plate for giving the latter a vibratory motion, substantially as set forth. 3rd. The combination of the frame plate, the feed plate, the driving wheel, means for rotating it, the vibrating lever operated by the driving wheel, means for rotating it, the vibrating lever, and a handle or knob for withdrawing the pinion from engaging with the rack, substantially as set forth. 4th. The combination of the frame plate, the feed plate, the driving wheel, the feed plate, the driving wheel, means for rotating it, the vibrating lever operated by the driving wheel, the pawl on the end of said lover, the ratchet wheel with which the rack, substantially as set forth. 4th. The combination of the frame plate, the feed plate, the driving wheel, means for rotating it, the vibrating lever operated by the driving wheel, the pawl on the end of said lover, the ratchet wheel with which the pinion engages, and an adjustable gauge that regulates the movement of the pawl on the end of the vibrating lever, substantially as set forth. 5th. The c

### No. 29,819. Adjustable Pillow Sham Holder.

(Porte-housse d'oreiller mobile.)

William Jones, Buffalo, N.Y., U.S., 5th September, 1888: 5 years. Claim. - A pillow sham holder, comprising the adjustably connected