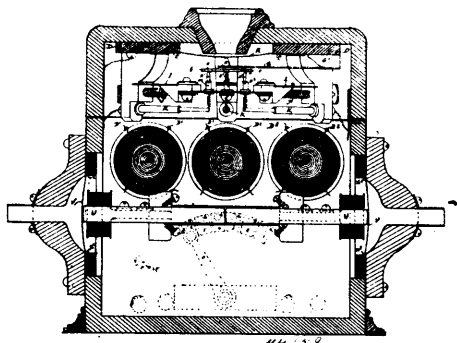


the lines at the exchange, transmitters and receivers connected into the lines when in use, said transmitters consisting substantially of induction coils, one coil being in the line and another in inductive relation thereto when connected to mechanism for varying current or resistance in the circuit of said coil in correspondence with sound waves reaching the transmitter.

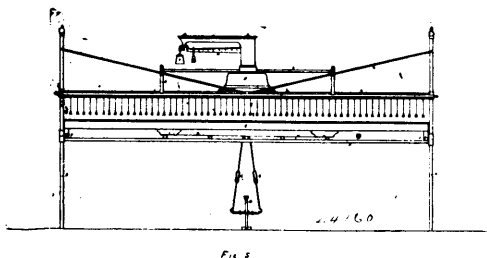
No. 44,159. Telephone. (Téléphone.)



Isidore Thérien, Sault Montmorency, Quebec, 5th September, 1893; 6 years.

Résumé.—1° Le diaphragme du transmetteur A, de forme bombée et en verre au lieu de métal. 2° La forme du diaphragme du récepteur V, en fer bombé également au lieu d'être de forme plane. 3° La combinaison des bobines inductrices reliées en séries et en même temps isolées les unes des autres, possédant chacune leur pile et pouvant fonctionner séparément ou simultanément, ce qui donne la facilité d'augmenter à volonté le potentiel du courant de ligne, sans augmenter le diamètre de ses fils tout en prolongeant la ligne, en mettant en série le fil induit d'un certain nombre de bobines inductrices. 4° La faculté de construire des instruments avec un nombre illimité de bobines inductrices et de contacts mis en séries.

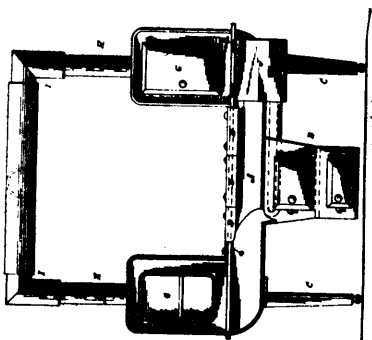
No. 44,160. Machine for Measuring Leather. (Machine pour mesurer le cuir.)



Joseph Pierre Roy and Edmond Paré, both of Quebec, Province of Quebec, Canada, 5th September, 1893; 6 years.

Résumé.—1° La charpente de la machine en tube de fer A, qui se termine par des œils à écrous, la pédale B, les régulateurs C, C', les leviers D, D', et la table mobile, tel que décrit pour les fins sus mentionnées. 2° La forme des petits poids I, pour reposer sur les lattes des carreaux, les tubes soutenant ces lattes et les dispositions de la balance sur la machine, le tout tel que décrit pour les fins mentionnées.

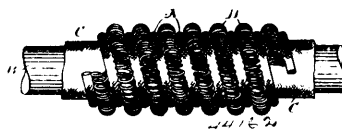
No. 44,161. Range or Stove. (Cuisinière ou poêle.)



Alexander Heppe and James Spellin, both of Bradford, Pennsylvania, U.S.A., 5th September, 1893; 6 years.

Claim.—1st. In a stove, the frame A, having flanged upper edge plates secured to the said flanges, ovens supported on the ends of the

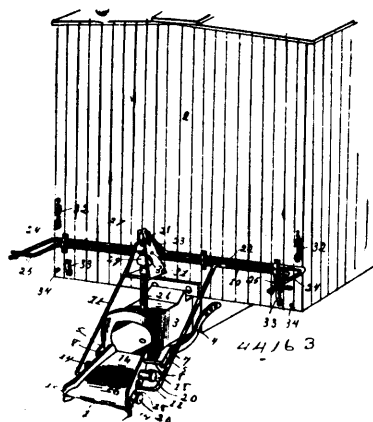
No. 44,162. Electrical Heater. (Calorifère électrique.)



The Consolidated Car Heating Company, assignee of James F. McElroy, all of Albany, New York, U.S.A., 5th September, 1893; 6 years.

Claim.—1st. In an electric heater, a wire wound in the form of a spiral spring, extending in a spiral path about a cylindrically formed non-conductor, in such a manner that each spiral shall come into contact with the non-conductor at one point only and the layer of spirals shall be separated from each other, substantially as described and for the purpose set forth. 2nd. In an electric heater, the combination of an insulating substance, a wire coiled in the form of spiral spring, extending in a spiral path about said insulating substance, a non-conducting material placed between the adjacent layers of the said spring, substantially as described and for the purpose set forth.

No. 44,163. Car Coupler. (Attelage de chars.)



George A. Norcross and Henry E. Vernor, both of San Antonio, Texas, U.S.A., 5th September, 1893; 6 years.

Claim.—1st. In a car coupling, the combination of a car, having a draw-head, a link guider hingedly connected with the car and located beneath the draw-head, and means for swinging the link guider outward to an inclined position in advance of the draw-head, substantially as described. 2nd. In a car coupling, the combination with a car, having a draw-head, of links having their upper ends hingedly connected with the car, a link guider located beneath the draw-head, and hinged to the lower ends of said links and adapted to be swung outward to an inclined position in advance of the draw-head, and a rock shaft journaled on the car and having an arm connected with the link guider to swing the latter outward and to return the same beneath the draw-head, substantially as described. 3rd. In a car coupling, the combination with a car, having a draw-head, of a link guider arranged beneath the draw-head and hingedly connected with the car and provided with yielding sides adapted to be forced outward, and means for swinging the link guider outward to an inclined position in advance of the draw-head and for returning the same beneath the draw-head, substantially as described. 4th. In a car coupling, the combination, with a car having a draw-head, of a link guider arranged beneath the draw-head and hingedly connected with the car and provided with converging sides, and means for swinging the link guider outward to an inclined position in advance of the draw-head and for returning the same beneath the draw-head, substantially as described. 5th. In a car coupling, the combination, with a car having a draw-head, of a link guider arranged beneath the draw-head and hingedly connected with the car and provided with converging yielding sides adapted to be forced outward, and means for swinging the link guider outward to an inclined position in advance of the draw-head and for returning the same beneath the draw-head, substantially as described. 6th. In a car coupling, the combination, with a car having a draw-head,