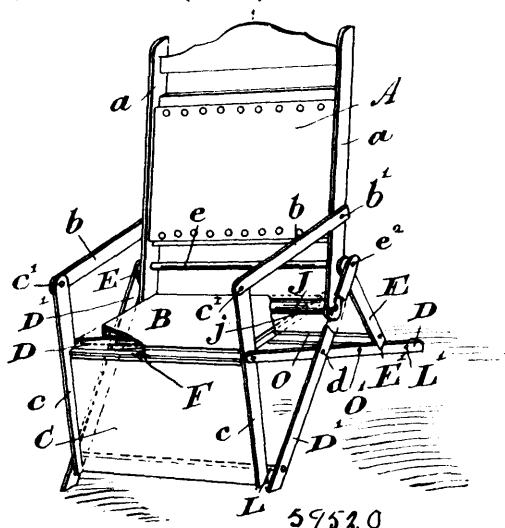


part in series with the mains, and part in shunt thereto, and an element or bridge forming part of the magnetic circuit and movable relatively to the coils, the bridge varying by its changes of position the magnetic flux between the coils in direction and amount, and thereby regulating the electro-motive force maintained in the induced coil between maximum in one direction and maximum in the other direction, as set forth.

No. 99,520. Chair. (Chaise.)



David Benjamin Kennedy, Hull, Quebec, and Albert Hall, Ottawa, both in Canada, 4th April, 1898; 6 years. (Filed 17th March, 1898.)

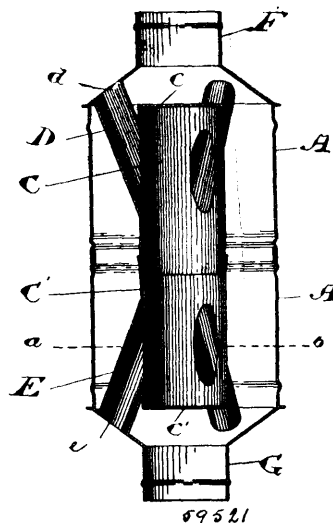
Claim.—1st. The combination with the back pivoted intermediately of the length on a suitable support and having a spindle extending between the lower ends thereof, of the front board provided with side bars pivoted intermediate of their length, said arms connecting the tops of the front side bars to the side bars of the back above its point and a suitable seat pivotally connected to the front side bars and designed to rest upon the lower spindle of the back, as and for the purpose specified. 2nd. In combination the back A, provided with a lower supporting spindle, the front F, having sides C, the cross pieces legs D, and D', having pivotal supports at their upper ends, the supports E and spindle extending through the same, the sides of the back and the tops of the legs D', and forming pivotal supports for the back intermediate of its length and the seat B detachably connected at the front to the side bars C and designed to rest formally on the spindle at the bottom of the back, as and for the purpose specified. 3rd. The combination with the adjustable back and adjustable front suitably connected and supported so as to move in unison during adjustment, of a seat pivoted at one end thereof and designed to be supported at the opposite end loosely between the bottom end of the back and the top and the end of the front, as and for the purpose specified.

No. 59,521. Heating Drum for Stoves. (Poêle sourd.)

Robert Wellington Biggar, Samuel J. Robertson, and James W. Bain, all of Toronto, Ontario, Canada, 5th April, 1898; 6 years. (Filed 16th March, 1898.)

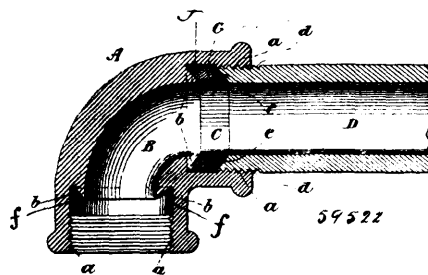
Claim.—1st. In a heating drum, the combination of a drum formed of two separable pieces and provided with collars to connect with the stove pipe, a heating cylinder formed of two separable pieces and closed at the top and bottom, held centrally within the drum so as to form a smoke chamber between its outer surface and the inner surface of the drum, one or more air inlet pipes or flues opening into the lower half of the heating cylinder and communicating with the outside air through holes formed in the bottom of the drum, and one or more air outlet pipes or flues opening into the upper half of the heating cylinder and discharging the heated air through holes formed in the top of the drum, substantially as specified. 2nd. A heating drum comprising the following elements, the upper half A, of the drum, the lower half A', sleeved in the upper half and provided with collars F and G, and holes d and e respectively, the centrally-supported upper portion C, of the heating cylinder, the centrally-supported lower portion C', sleeved on the upper half and closed at c and c' respectively, the outlet pipes or flues B, communicating between the upper portion of the heating cylinder and the holes d formed in the top of the drum, and the inlet pipes or flues E, communicating between the lower portion of the heating cylinder, and the holes e formed in the bottom of the drum, substantially as and for the purpose specified. 3rd. In a heating drum, the combination of a drum formed to connect with a stove pipe, a heating cylinder closed at the top and bottom and held centrally within the drum, one or more air inlet pipes or flues opening into the lower portion

of the heating cylinder and communicating with the outer air through holes formed in the drum at or near the bottom, and one or



more air outlet pipes or flues opening into the upper part of the heating cylinder and communicating with the outer air through holes formed in the drum at or near the top, substantially as and for the purpose specified.

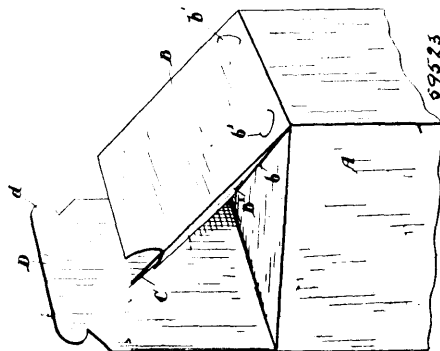
No. 59,522. Pipe Coupling. (Joint de tuyaux.)



John Francis Normoyle and Henry James Baack, both of the City of New York, U.S.A., 5th April, 1898; 6 years. (Filed 14th March, 1898.)

Claim.—1st. The coupling sleeve A, having the threads a, band B, and inwardly bevelled shoulder b, combined with the washer C against said shoulder, and the pipe D having the bevelled end c for contact with said washer and corresponding with the bevel of said shoulder b, substantially as shown and described. 2nd. The coupling sleeve A having the threads a, band B, inwardly bevelled shoulders b, and recesses f, combined with the washers C in said recesses and against said shoulders, and the pipe D having the bevelled end c for contact with said washer and corresponding with the bevel of said shoulder b, substantially as shown and described.

No. 59,523. Folding Box. (Boîte pliante.)



Kilgour Brothers, assignees of Frederick George Alexander, all of Toronto, Ontario, Canada, 5th April, 1898; 6 years. (Filed 16th March, 1898.)