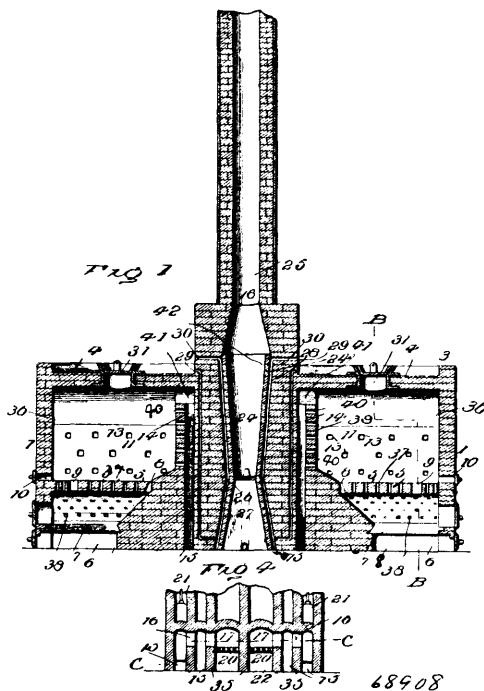


having an opening therein for the passage of the refuse to its respective furnace. 6th. A refuse burner comprising a preliminary com-



bustion chamber having a fuel supply inlet, a series of furnaces below and communicating with said chamber, the tops of the furnaces forming the floor of the latter, said preliminary combustion chamber having restricted outlets at one end and above the furnaces, the fuel inlet being above the restricted outlets and arranged to deliver the refuse matter in the path of the products of combustion from the furnaces. 7th. A refuse burner comprising a preliminary combustion chamber having a fuel supply inlet, a series of furnaces below and communicating with said chamber, the tops of the furnaces forming the floor of the latter, said preliminary combustion chamber having at one end a series of restricted outlets arranged at different levels, the fuel inlet being above the restricted outlets and arranged to deliver the refuse matter in the path of the products of combustion from the furnaces. 8th. A refuse burner comprising a combustion chamber having a fuel supply inlet, a series of furnaces below said chamber, the tops of the furnaces forming the floor of the latter and having perforations therein opening into the combustion chamber, one wall of said chamber being provided with restricted outlets arranged at different levels, the fuel inlet being above the restricted outlets and arranged to deliver the refuse matter in the path of the products of combustion from the furnaces. 9th. A refuse burner comprising a preliminary combustion chamber having a fuel supply inlet, a series of intercommunicating furnaces below said chamber, the tops of the furnaces forming the floor of the latter, openings being formed in the top of each furnace for the passage of the refuse into its respective furnace and for the outlet of the products of combustion from the furnaces. 10th. A refuse burner comprising a preliminary combustion chamber in which the material is to be deposited, a series of furnaces below said chamber having arched roofs forming the floor of such chamber, each roof having an opening therein for the passage of the refuse into its respective furnace and for the outlet of the products of combustion from said furnaces. 11th. A refuse burner comprising a preliminary combustion chamber in which the material is to be deposited, a series of furnace below said chamber, the tops of the furnaces forming the floor of the latter, a means of communication between the preliminary combustion chamber and the furnaces, a chimney, a series of vertical flues communicating therewith, said preliminary combustion chamber being in communication with each of said vertical flues through a series of openings arranged at different levels. 12th. A refuse burner comprising a preliminary combustion chamber in which material is to be deposited, a series of furnaces below said chamber, the tops of the furnaces forming the floor of the latter, a means of communication between the preliminary combustion chamber and the furnaces, a chimney, a series of vertical flues, a flue common to said series of vertical flues leading to said chimney, said preliminary combustion chamber being in communication with each

of said vertical flues through a series of openings arranged at different levels. 13th. A refuse burner comprising a casing having a preliminary combustion chamber, and a series of furnaces below said chamber having arched tops forming the floor of said chamber, said tops having fuel supply openings near one of the walls of the casing which wall is provided with openings therein in line with said tops, substantially as set forth. 14th. A refuse burner comprising a preliminary combustion chamber, a series of furnaces under said chamber, the tops of said furnaces forming the floor of the preliminary combustion chamber, and direct and indirect passages from the furnaces to the chamber, the indirect passages having free communication with the furnaces, substantially as set forth. 15th. A refuse burner comprising a preliminary combustion chamber, a series of furnaces under said chamber, the tops of said furnaces forming the floor of the latter, and direct and indirect passages from the furnaces to the chamber, the indirect passages having free communication with the furnaces and communicating with the combustion chamber at different levels, as set forth. 16th. A refuse burner comprising a preliminary combustion chamber, a series of furnaces below said chamber having communicating openings between said furnaces and air channels between the side furnaces and the side walls of the chamber, said furnaces having communication with said air channels, which latter open directly into the combustion chamber, as set forth. 17th. A refuse burner comprising a preliminary combustion chamber, a series of furnaces below said chamber, the tops of which are perforated and form the floor of said chamber, a wall at the rear of said furnaces, extending to near the top of the combustion chamber, a series of outlets in said wall, said outlets being on different levels, a series of flues in rear of said wall extending to near the top thereof and into which said outlets open, a chimney, and a flue common to said series of flues connecting the latter with said chimney. 18th. A refuse burner comprising a preliminary combustion chamber, a series of furnaces below said chamber, the tops of which furnaces are perforated and form the floor of said chamber, a wall at the rear end of said chamber extending to near the top thereof, a series of vertical flues extending to near the top of said wall, a chimney, a flue common to said vertical flues leading to said chimney, said preliminary combustion chamber being in communication with each of said vertical flues through a series of openings arranged at different levels. 19th. In an apparatus of the class described, a preliminary combustion chamber, having a fuel inlet, a series of furnaces under the floor of such chamber, a means of communication between the preliminary combustion chamber and the furnaces, holes being formed in said floor near one end of the chamber for the passage of the refuse into the furnaces and for the outlet of the products of combustion from the latter and the other end of the preliminary combustion chamber being provided with a series of restricted outlets on different levels, the fuel inlet being above the restricted outlets and arranged to deliver the refuse matter in the path of the products of combustion from the furnaces, as set forth. 20th. In an apparatus of the class described, a preliminary combustion chamber having a fuel inlet, a furnace under the floor of such chamber, a hole being formed in said floor at one end of the preliminary combustion chamber for the passage of the refuse into the furnace and for the outlet of the products of combustion from the latter and a wall at the other end of the preliminary combustion chamber having a series of restricted outlets arranged on different levels, the fuel inlet being above the restricted outlets and arranged to deliver the refuse matter in the path of the products of combustion from the furnaces. 21st. A refuse burner comprising a preliminary combustion chamber in which the material is to be deposited and a series of furnaces having arched roofs forming the floor in such chamber, said furnaces having a continuous communication with each other, and each furnace communicating with the preliminary combustion chamber. 22nd. A refuse burner comprising a preliminary combustion chamber, having a supply opening in its top through which the material is deposited, an exit flue, a furnace having its roof forming a floor in such chamber, the rear wall of the preliminary combustion chamber having a series of outlets on different levels, the lowest one of the series of outlets being in the most direct line to said exit flue. 23rd. A refuse burner comprising a preliminary combustion chamber, a series of furnaces below said chamber, the tops of which are perforated and form the floor of said chamber, a series of vertical flues at the rear of said chamber, a chimney, a flue common to said vertical flues leading to said chimney, and a furnace in the flue common to the vertical flues, said preliminary combustion chamber being in communication with each of said vertical flues through a series of openings arranged on different levels.

No. 68,909. Valve, Tap, etc. (Soupape, etc.)

Henry Alfred Wood, Kingston, Ontario, Canada, 6th October, 1900; 6 years. (Filed 13th November, 1899.)

*Claim.*—The process of manufacturing and finishing the parts of valves, taps or stoppers of any kind, adapted to control, check or block the flow of escape of air, steam, water, or any gas or liquid, by roughly shaping the valve, valve seat, or other part which is required to have a perfectly smooth surface in order to fit closely against any other surface and form a tight joint, and finishing the said part by pressure on or in a prepared hard smooth mould, die, or shaping tool, instead of by grinding and polishing in the usual way, substantially as and for the purposes described,