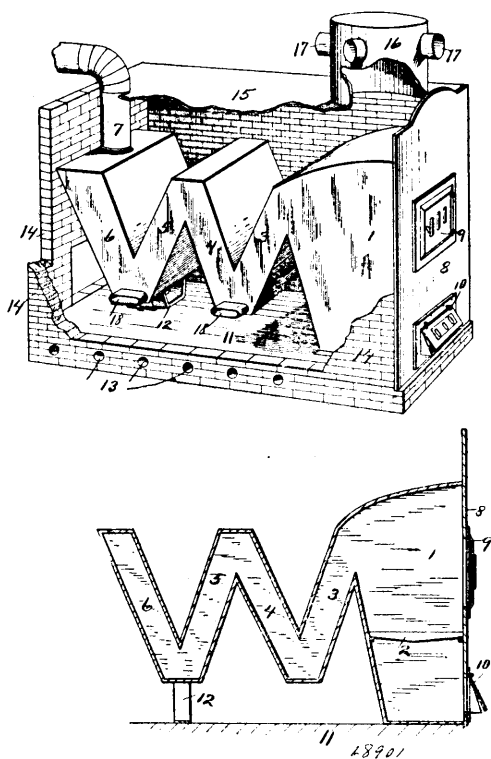


when connection is made by the line, as described. 3rd. The combination with a telephone line and a self-restoring line annunciator in a normal bridge of the line circuit, a spring jack for the line, and a local circuit, including the restoring magnet of the line annunciator and normally open at separated contacts in the spring jack adapted to be closed together by an inserted plug, of an electromagnetic switch controlling the bridge of the line, the actuating magnet of the said switch being in the same local circuit with the restoring magnet of the line annunciator, as described. 4th. The combination with telephone lines, and a plug and plug circuit forming a temporary extension of one of the lines, a source of current connected with the plug circuit, and an operator's listening key, of switch contacts of the listening key adapted to connect the telephone with the plug circuit and to sever the conductive connection between the tip of the plug and the said battery, whereby the plug may be inserted into the spring jack of a line without producing disturbances in the telephone of the line connected with the plug as described.

**No. 68,901. Furnace. (Fournaise.)**



Amos Albert Cushman and Charles S. Hill, Mansfield, Ohio, U.S.A., 4th October, 1900; 6 years. (Filed 15th September, 1900.)

*Claim.*—1st. The combination of a furnace body provided with a fuel chamber, the up and down chambers, one of said up and down chambers connected to the fuel chamber and leading therefrom walls enclosing the furnace body, a cover located over the furnace body and provided with a hot air drum, all arranged, substantially as and for the purpose specified. 2nd. The combination of a furnace body provided with inclined chambers, a foundation or base provided with air passages and the furnace enclosed by side and end walls and a top or cover provided with a hot air chamber, substantially as and for the purpose specified. 3rd. A furnace body provided with a furnace chamber, up and down chambers located between the furnace chamber and the chimney flue, all arranged, substantially as and for the purpose specified.

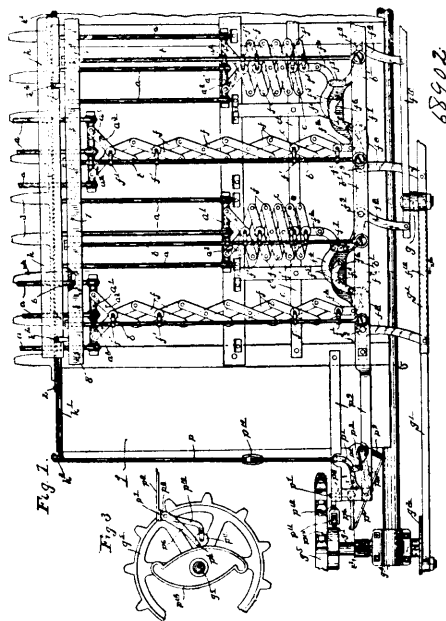
**No. 68,902. Harvester Mechanism.**

(Mécanisme de moissonneuses.)

Daniel Svenson, Twin Valley, Minnesota, U.S.A., 4th October, 1900; 6 years. (Filed 8th September, 1900.)

*Claim.*—1st. The combination with a harvester, of a plurality of lifting fingers mounted for approximately horizontal reciprocations, and means for projecting said fingers forward of the sickle bar and then elevating them while projected, to lift the falling grain, substantially as described. 2nd. The combination with a harvesting

machine of reciprocating and pivotally mounted lifting fingers projecting forward of the cutter bar, and a lifting blade or bar extended



beneath said fingers and having connections for lifting the same, substantially as described. 3rd. The combination with a harvester, of a plurality of lifting fingers and means for projecting them forward of the cutter bar, of a pivoted lifting blade extended below said fingers and operating to raise the same when projected, substantially as described. 4th. The combination with a harvesting machine, of reciprocating fingers pivoted in groups to heads or carriers, lazy tong connections to said heads or carriers, and means for operating the said lazy tongs, substantially as described. 5th. The combination with a harvesting machine, of reciprocating lifting fingers pivoted in groups to heads or carriers, lazy tong connections to said heads or carriers, and means for extending and contracting adjacent lazy tongs in alternate order, substantially as described. 6th. The combination with a harvester, of reciprocating lifting fingers pivoted in groups to reciprocating heads or carrier lazy tong connections for reciprocating alternate heads or carriers in reverse order, a lifting blade pivoted below the free portions of said lifting fingers, and means for operating the said blade to lift said fingers while projected forward of the cutter bar, substantially as described. 7th. The combination with a harvesting machine, of the lifting fingers *a*, pivoted to the heads *a'*, the lazy tongs *f* operating said heads *a'*, the guide rods *b* serving to support and guide said lazy tongs *f*, the bell crank and intermediate lever connections to said lazy tongs, the crank and pitman connection to said bell cranks, the pivoted lifting blade *k* underlying the lifting fingers *a*, a cam for operating said blades and lever connections between said cam and said blade operating, substantially as described.

**No. 68,903. Duplicating Apparatus. (Appareil duplicata.)**

The A. B. Dick Company, Chicago, Illinois, U.S.A., 4th October, 1900; 6 years. (Filed 14th October, 1899.)

*Claim.*—1st. In a duplicating apparatus, a hinged leaf provided at its ends with fastening devices by means of which a stencil sheet can be secured in place at its ends only, said hinged leaf also carrying a removable frame to which is permanently secured a perforated diaphragm sheet, which sheet in use will be maintained adjacent to the stencil sheet, substantially as and for the purposes set forth. 2nd. In a duplicating apparatus, the combination with the bed and stencil carrying members, of a stencil and means for securing the same at each end including clamping devices and locking mechanism co-acting therewith, substantially as set forth. 3rd. In a duplicating apparatus, the combination with the bed and stencil carrying members, of a stencil and means for securing the same at each end including hinged clamping devices adapted to secure stencils of varying thickness and locking mechanism for said devices, substantially as set forth. 4th. In a duplicating apparatus, the combination with the bed and stencil carrying members, of a stencil and means for securing the same at each end including hinged clamping devices co-acting with spring pressed surfaces and locking mechanism for said clamping devices, substantially as set forth. 5th. In a duplicating apparatus, the combination with the bed and stencil carrying members, of a stencil and means for securing the same at each end including hinged clamping bars co-acting with the spring pressed