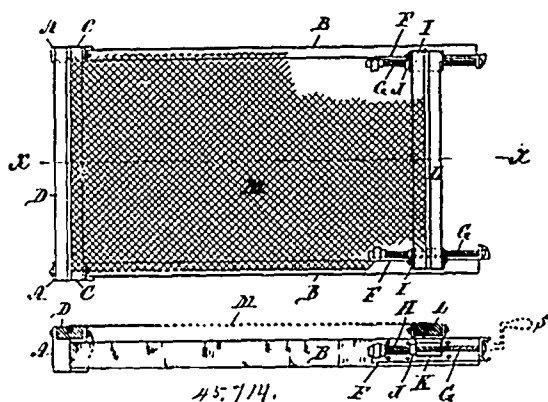


E, provided with anti friction rollers *w w*, substantially as and for the purpose specified. 6th. In combination with the doors A, and track H, of the movable portion H' of the track, to allow the doors to be moved to one side of the frame, substantially as specified. 7th. In combination A A, of the first door A', next the frame A', made about one-half the size of the others, substantially as and for the purpose specified. 8th. In combination with the doors A, and upper track H, of the pin *o*, and roller *p*, at the top of all the doors not having the rollers *c c*, and swivel pins E attached, substantially as and for the purpose specified. 9th. In combination with the doors A and rollers *c c*, and swivel pins E, of the sound proof strip *r* of elastic material at the top and bottom of each door, for the purpose specified.

No. 45,714. Woven Wire Mattress.

(*Sommier en fil de fer tissé.*)



Edward C. Granville, Ottawa, Ontario, Canada, 6th April, 1894; 6 years.

Claim.—1st. A mattress frame having a removable end rail and an adjustable stretcher bar near the other end and connected by an attached woven wire fabric, said end rail connected to side rails by corner irons A, A, and the stretcher bar connected to the side rails by brackets F and K, the brackets K, having a screw shaft G, and follower J to push the brackets K, to tighten the wire fabric, as set forth. 2nd. A mattress frame having the side rails at one end connected to the end rail D, by detachable corner irons A, A, and near the opposite ends connected by detachable stretcher bar L, secured to brackets F, travelling in brackets K, secured to the side rails, said brackets F having a screw-threaded shaft G provided with a nut J, as and for the purpose set forth. 3rd. The combination with the side rails B, B, of brackets F, F, secured thereto near one end and carrying a screw-threaded shaft G, provided with a follower or nut J, the brackets K, K, supported by brackets F, to travel thereon, a stretcher bar L carried by said brackets K, and a woven wire fabric M, secured to said stretcher bar and end rail, as set forth. 4th. A mattress having the side rails at one end connected by a rail D, and detachable corner irons A, A, a woven wire fabric M attached to said end rail and to a stretcher bar L, carried upon brackets K, K, travelling along brackets F, F, secured to said side rails, said brackets F having a screw shaft G, and a nut J, as set forth.

No. 45,715. Non Heat Conducting Cement for Boilers, Steam Pipes, etc. (*Ciment non-conducteur de chaleur pour chaudières, tuyaux à vapeur, etc.*)

J. E. Turgeon, Sherbrooke, Quebec, Canada, 6th April, 1894; 6 years.

Claim.—A cement composed of the following ingredients, fire clay, wool, cocanut fibre, pulverized charcoal, wheat flour, raw asbestos, crude oil and water, mixed together in the proportions specified.

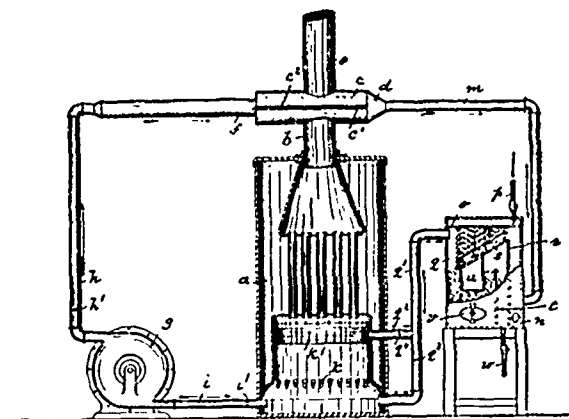
No. 45,716. Smoke Consumer and Blower.

(*Foyer fumivore et soufflet.*)

Garrett Wallace Poole, Newark, New Jersey, U.S.A., 6th April, 1894; 6 years.

Claim.—1st. In a smoke consuming apparatus, the combination of the furnace and its smoke pipe, of an intermediate chamber or pipe arranged between the smoke pipe and the smoke stack, a blower, a pipe leading from said blower into said intermediate chamber or pipe, a purifying chamber, and a series of pipes connecting said purifying chamber with said intermediate chamber or pipe, and with the fire chamber of the furnace, substantially as described. 2nd. In a smoke consuming apparatus, a chamber or pipe interposed between the smoke pipe of a furnace and the smoke stack, an air supply pipe entering said chamber, and dampers

dividing the space between said air supply pipe and its surrounding chamber or pipe into two compartments, substantially as described. 3rd. In a smoke consuming apparatus, a purifying



chamber, consisting of an upper and lower compartment separated by a perforated partition plate, a trap arranged in the lower compartment and a water supply pipe entering said upper compartment, all said parts substantially as and for the purpose described. 4th. The method of consuming smoke, consisting in first combining said smoke with fresh air, then in subjecting said combined air and smoke to a spray of water, and finally in forcing said purified smoke and air combined into the fire chamber of a furnace and above or below the grate bar, substantially as described. 5th. In a smoke consuming apparatus, a blower consisting of stationary casing provided with approximately central openings, with a drum adapted to be revolved in said casing and consisting of side plates provided with central openings registering with the central openings of the casing, and a series of curved uniform-shaped channels formed between said plates by curved partition plates, and extending from the central opening of the drum to the outer periphery thereof, the outlet end of each curved channel being approximately normal to the periphery of the next proceeding curved channel, substantially as described. 6th. In a smoke consuming apparatus, a casing for a blower, having upper and lower tangential outlets, being the continuation of channels, conical in cross section and surrounding the periphery of the revolving drum, placed in the casing, substantially as described. 7th. The combination in a blower, for a smoke consuming apparatus, of a casing having upper and lower tangential outlets being the continuation of channels, conical in cross section, and surrounding the periphery of a drum adapted to be revolved in said casing, with said drum consisting of a series of curved channels extending from the central opening of the drum to the outer periphery thereof, substantially as described. 8th. In a blower for a smoke consuming apparatus, the combination of the revolving drums, with a stationary chamber arranged concentrically around said drum and provided with an outlet, said casing being also provided with an outlet, said casing being also provided at or about the mouth of said outlet with an inwardly extending projection, substantially as described. 9th. In a blower for a smoke-consuming apparatus, the combination of the shell provided with centrally located openings and with an outlet, with a drum adapted to be revolved in said casing, and of a series of partition plates forming chambers or channels, the inner portions of said partition plates are arranged radially to the centre of the drum, while the outer portions are curved in such a way that the outlet openings of the chambers or channels are in line with the radially arranged portions of the partition plates, substantially as described.

No. 45,717. Heating Stove. (*Poêle de chauffage.*)

William W. Towne, Danville, Quebec, Canada, 6th April, 1894; 6 years.

Claim.—1st. The combination with a stove having a chamber formed by means of a false bottom and a narrow smoke exit running centrally the whole length of the top, of an air supply pipe communicating with the outside air and the said chamber, vertical tubes communicating with the said chamber, passing up in the interior of the stove, thence passing horizontally the whole length of the stove, and communicating with a chamber at the front end of the stove, tubes communicating with the said chamber at the rear and passing horizontally to the front then out through the top of the stove, substantially as set forth. 2nd. The combination with a stove having a chamber formed in its bottom adapted to receive air from the outside of a series of tubes, communicating with the said chamber, passing up above the fuel chamber and communicating with a heating chamber formed in the upper portion of the said stoves, tubes communicating with the said heating chamber and making their exit through the top of the stove, substantially as set forth. 3rd.