

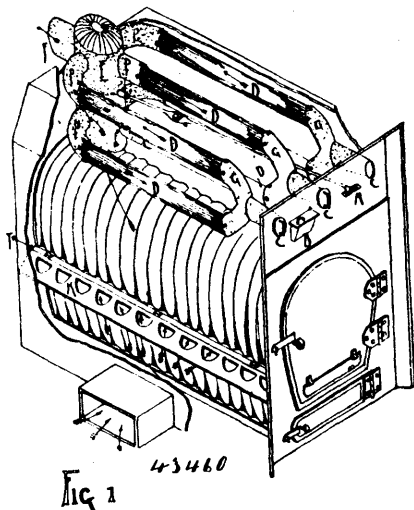
described and explained, and as illustrated in the accompanying drawings. 8th. In a sheep shearing machine, the combination, with a pair of clutches, such as b^2 , b^3 , adapted to connect the two parts of the driving spindle of the machine together, of a hand lever, such as F, mounted upon the casing of the machine adjacent to the handle, and adapted to throw said clutches in and out of gear with each other, substantially as and for the purposes herein described and explained, and as illustrated in the accompanying drawings. 9th. In a sheep shearing machine, the employment of a spring stop, such as G, for limiting the movement of a lever, such as F, used for throwing the two halves of a starting clutch into gear with each other, substantially as and for the purposes herein described and explained, and as illustrated in the accompanying drawings. 10th. In a sheep shearing machine, the combination of the forward part of a driving spindle, such as B, mounted in fixed bearings and having one half of a clutch on its end, with the hinder part of such driving spindle, such as B^1 , mounted in bearings within a sliding handle, such as O, arranged to be slid to and fro by means of a hand lever, such as F, substantially as and for the purpose herein described and explained and as illustrated in the accompanying drawings.

No. 43,459. Composition for Preventing the Passage of Heat and for Deadening Sound. (*Composition pour empêcher le passage de la chaleur et assourdir le son.*)

Frederick Blake Pemberton, Southampton, England, 3rd July, 1893; 6 years.

Claim.—1st. A non-conducting covering composed of an admixture of peat, moss litter, charcoal, sheeps wool, fire clay, plaster of Paris, manilla fibre, alum and linseed oil, substantially as described. 2nd. The process of preparing the non-conducting covering hereinbefore described consisting in cleaning, drying and sifting the peat, moss litter and wool, then impregnating the same in a strong solution of alum, afterward drying the same and mixing it in a dry state with fire clay, plaster of Paris and charcoal, adding water until the whole is of the consistency of mortar, after which the boiled linseed oil is added and finally the fibre, such as manilla, which has been previously cut to a suitable length, substantially as described. 3rd. In a non-conducting covering a scratch coat mixture consisting of a mixture of equal quantities of the non-conducting covering, fire clay, substantially as described.

No. 43,460. Furnace. (*Fournaise.*)

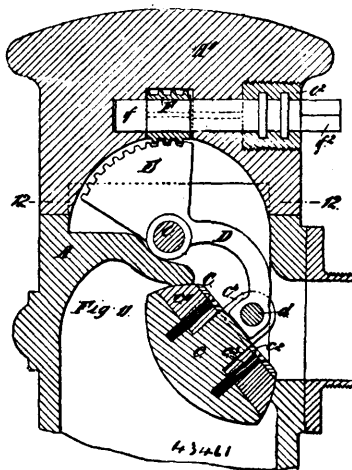


Robert Wellington Bigger, Hamilton, Ontario, Canada, 3rd July, 1893; 6 years.

Claim.—1st. The combination, with a furnace, of the dome tube E, provided with six elbows P, an exit F, a damper N, the steel tubes D, attached to elbows P, the front elbows G, attached to steel tubes D, and the tubes C of the elbows G, made to pass to the outer surface of the furnace front A^1 , having movable stoppers I, and a rod A for operating the damper for direct and indirect draft, all constructed and arranged, substantially as and for the purpose specified. 2nd. In combination, with a heating furnace, a perforated shield K, attached to the sides, substantially as and for the purpose specified. 3rd. In combination, with a heating furnace, the flange of the upper sides constructed with a V-shaped projection U, and

the flange of the lower section constructed with a corresponding V-shaped groove 7, to receive the former, the flanges 6 and 8 being bolted together, to form a close joint without cement, to prevent the escape of smoke and dust, substantially as specified.

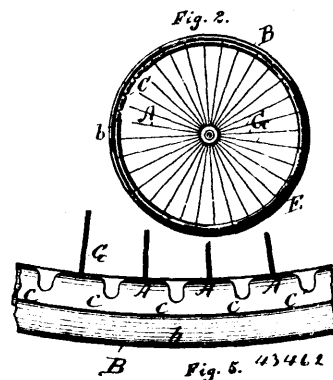
No. 43,461. Valve. (*Soupape.*)



Hugh Thomson, Thornton, Studley Park Road, Victoria, Australia, 3rd July, 1893; 6 years.

Claim.—1st. In fire plugs and hydrants, a valve, such as C, consisting of a casting, such as c , formed with lugs projecting up from its central portions around which is fitted a ring, such as c^1 , of rubber or other packing material clamped between said casting, and a metal ring secured thereto by set screws, such as c^2 , the whole being constructed and arranged, substantially as and for the purposes herein described and explained and as illustrated in the accompanying drawings. 2nd. In fire plugs and hydrants, a valve, such as C, pivoted upon an arm projecting from a spindle, such as e , to which motion is imparted by any convenient arrangement of mechanism, such for instance as that herein described and as illustrated in my drawings, substantially as and for the purposes specified. 3rd. In fire plugs and hydrants, a valve, such as C, pivoted upon an arm projecting from a spindle, such as e , either fitted with a toothed quadrant with which a worm, such as F, is in engagement, or else having a projecting arm engaging with a screw threaded rod, the whole being constructed and arranged substantially as and for the purpose herein described and explained, and as illustrated in the accompanying drawings.

No. 43,462. Tire for Wheels. (*Bandage de roue.*)



John Thompson Smith, Bridgeport, Connecticut, and Arthur Herbert Smith, New York, State of New York, both of the U.S.A., 4th July, 1893; 6 years.

Claim.—1st. An elastic tire comprising a flanged crown and a webbing provided with transverse openings, substantially as set forth. 2nd. An elastic tire comprising a crown and an oblong webbing having marginal disconnected sections, substantially as set forth. 3rd. An elastic tire comprising a webbing and a flanged crown forming longitudinal depressions on each side of the webbing, substantially as set forth. 4th. The combination, in an elastic tire,