No. 2023. JAMES E. EMERSON, Beaver Falls, Pa., U. S., CHARLES H. WATEROUS & GEO. H. WILKES, both of Brantford, Ont., 3rd February, 1873, for 5 years: "A Removable Saw Set Socket." (Une douille de raînette mobile.)

Relates to the construction of a thumb-cam, nut or bolt which as it is partially turned forces the end of the saw blade hard against its end bearings, and at the same time clamps the wings of the socket hard against the sides of the saw-blade.

Claim.—1st. The thumb-bolt D, constructed as described in combination with the wings B1, of socket B, and saw-blade A; 2nd. The removeable socket A, and handle  $A_1$ , of a cross-cut saw in combination with the saw-set composed of the slot  $a_1$  in socket A, anvil-block  $b_1$ , having arm B2, and gauge-screw  $c_1$ , when attached and constructed to operate with the handle in the manner described.

No. 2024. Sebrus C. Maine, Boston, Mass., U. S., 3rd February, 1873, for 5 years: "A Portable Ventilator." (Un ventilateur portatif.)

Claim.—1st. A ventilator of the character described by means of which currents of air will be deflected from a direct coruse on enteringthe apartment to be ventilated; 2nd. The combination in a ventilator of a deflector for changing the direction of the currents of air on entering the apartment to be ventilated, and a damper for regulating the supply of air to be admitted; 3rd. The combination in a railway-car ventilator of a deflector for changing the direction of the currents of air as they enter the car, and an automatic valve operating as described for directing the external air into the ventilator in whichever direction the car may be moving; 4th. The combination in a railway-car ventilator of a deflector for changing the direction of the currents of air as they enter the car and a screen arranged and operating as described for excluding dust, ciuders, etc., from the air admitted to the car; 5th. The combination in a railway car ventilator of a deflector for changing the direction of the currents of air as they enter the car and a sliding valve as shown in figures 2, and 4, for automatically directing the external air into the ventilator in whatever direction the car may be moving.

No. 2025. JAMES H. BUTLER, Hampton, Me., U. S., & HIRAM DUCLOS, Jr., Montreal, Que., 3rd February, 1873, for 15 years: "Machine for Cutting Laths." (Machine à scier la latte.)

Consists in the manner of running a series of gang-saws on an inclined arbor by a belt from a horizontal drum and shaft, said saws being secured by conical collars so arranged on a line parallel with the plane of the feed table that the saw blades shall have an even support on each side.

Claim.—A lath cutting machine, the combination of the gangsaws C, inclined arbor D, conical collars C1, driving inclined-belt d, horizontal shaft E2, and feed-rollers G and G1, the whole constructed and arranged for the purpose of cutting laths with beveledges.

No. 2026. EDWARD J. CHAPMAN, Toronto, Ont., 3rd February, 1873, for 5 years: "Art of Treating Auriferous Mispickel for the Extraction of Gold." (Art de traiter le mispikel aurifère pour en extraire l'or.)

Claim.—The ignition or gentle deflagration of auriferous mispickel or arsenical pyrites with a sufficient quantity of nitrate of sods or nitrate of potash, or both, and the dissolving out the resulting soluble matters thus leaving a residuum which is more easily treated for the extraction of the gold therein contained either by amalgamation or the so called chlorine process.

No. 2027. SILAS DODSON, Jersey City, N. J., U. S., 3rd February, 1873, for 5 years: "A Grain Scourer." (Un nettoyeur des grains.)

Consists of a stone casing constructed in sections or blocks, combined with an interior cylinder armed with beaters which scour the grain by projecting it against the casing.

the grain by projecting it against the casing. Claim.—1st. A case B, B, composed wholly or in part of stone and used in connection with interior beaters; 2nd. The combination of the revolving cylinder  $\rho$ , armed with a series of beaters J, J, or their equivalents, with a stone-case B, B; 3rd. The combination of the bevel-edges b, b, and the square bearing-edges d, d, so arranged as to compensate for the wear of the interior of the case by a redressing of said square-edges; 4th. The mode of souring grain, the same consisting in projecting the grain upon the inner periphery of a stone-case by means of interior beaters or wings.

No. 2028. WILLIAM J. KEEP, Troy, N. Y., U. S., 3rd February, 1873, for 5 years: "A Side Base Burning Stove." (Un poêle à charbon à foyer de base et de côté.)

Claim.—1st. A stove having the upper or supply end of its magazine separated from the air of the apartment by means of two covers, between which is a chamber for the escape of gas, when

said covers are so combined that the inner cover must be opened by an independent motion before the outer cover can be removed; 2nd. An exterior cover for the upper-ond of a stove casing which can only be removed after an exterior cover from the stain of the cover of the store of the cover of the store of the cover said covers are so combined that the inner cover must be opened by an independent motion before the outer cover can be removed; 2nd. An exterior cover for the upper-end of a stove casing which