rods marked with a scale, and having an adjustable clamping connecrous marked with a scale, and having an adjustable clamping connectian whereby they can be adjusted upon one another or extended to form a milk scale, substantially as described. 4th. A milk gauge, consisting of the sections 1, 1, connected by the slot 2, bolt nut and washer 3, 4 and 5, and link 6, and having the scale 9 and turned up square ends 7, substantially as described.

No. 27,913. Jack Screw. (Vis de cric.)

Charles H. Hopkins and George W. Knight, Lyndonville, Vt., U. S., 2nd November, 1887; 5 years.

2nd November, 1887; 5 years.

Claim.—1st. The combination of the hollow standard A, the bevel gear B mounted on the upper end of the standard, the screw C passing therethrough and into the internal part of the standard. the shaft D formed integral with a portion of the standard and projecting horizontally therefrom, the bevel-gear mounted on the said shaft and meshing with the gear B, the ratchet wheel F formed integral with the gear E, the lever G having the apertures f, f, near its opposite edges at the outer end, the double-acting pawl having the teeth f3, f4 adapted to engage the ratchet-wheel F, and provided with the slot f in its lower end, the said pawl being pivoted on the lever G and the torsional spring a, having one end secured in the said slot f, and its other end extending slightly beyond said apertures and provided with the pin f2, adapted to engage the said apertures fi in the lever, substantially as specified. 2nd. In a jack-screw, the combination, with the standard A, a screw C therein, a bevel-gear B seated in the upper end of said standard, and provided with an internal screw-thread engaging the thread on said standard at right angles to said gear B, and engaging therewith a ratchet-wheel F, integral with said gear E, and a handle G loosely mounted on said stub-shaft, of a double pawl F1 pivoted on said landle and provided with a slot f in its outer end, and a torsion spring S, one end of which enters said slot f, and the other end of which is provided with a laterally-projecting pin f2 adapted to enter holes f1 in said handle, said pin being normally farther from the pivot of said pawl than isaid holes, as and for the purpose set forth. for the purpose set forth.

No. 27,914. Dust Pan. (Porte-ordure.)

Richard Sampson, Sherbrooke, Que., 2nd November, 1887; 5 years. Claim.—As a new article of manufacture, a dust pan, made and constructed substantially as shown and described.

No. 27,915. Art or process of Impregnating Chamois Skin with Rouge. (Art ou manière de saturer de rouge les peaux de chamois-)

John E. Darby and Elson Blakeslee, Cleveland, Ohio, U. S., 2nd November, 1887;5 years.

Claim.—1st. The process of impregnating chamois skin with rouge, which consists in working the rouge while dry more or less into the meshes of the skin, and then applying a permeating liquid to drive the rouge into the skin, substantially as set forth. 2nd. In the impregnation of chamois skin with rouge, by means of a penetrating liquid, the process of driving the rouge into the skin, which consist in applying the rouge to the inside surface of the skin, and then saturating a suitable pad with the penetrating liquid and rubbing it over the rouge and skin, substantially as set forth. 3rd. As a new article of manufacture, chamois skin impregnated with rouge, containing alkaline properties, substantially as set forth.

No. 27,916. Wooden Pulley. (Poulie de bois.)

The Dodge Manufacturing Company, (assignee of Charles N. Mc-Neal), Mishawaka, Ind., 2nd November, 1887; 5 years.

Neal), Mishawaka, Ind., 2nd November, 1887; 5 years.

Claim—1st. The mode of procedure in building a wooden split pulley herein described, which consists in first building the central part of said rim, second in dividing the same transversely on an irregular line to make an interlocking joint, third in adding a section to each edge of said central part and diving the same with a straight saw, whereby the adjoining ends of the rim are provided with interlocking proteions as set forth. 2nd. A wooden split pulley provided with interlocking projections and recesses in the adjoining ends of the rim, formed by dividing the same on a curved line, substantially as set forth. 3rd. A pulley provided with an arm or spoke C, having at its ends the wedging dovetailed tenons g fitting in a dovetailed mortise of the pulley-rim, and the fastening wedges; substantially as set forth. 4th. A separable wooden pulley having its rim divided on an irregular line to form interlocking portions at adjoining ends, and having its spokes or arms at their outer ends embedded in the rim with dovetailed tenons and mortises, substantially as set forth. 5th. A split pulley having a section A, and the arm C mortised into the same near its end, and provided with a stay-bolt K extending from said arm back to the pulley-rim at a distance from its end, substantially as set forth. 6th. A split pulley having the rim A, and the arm C mortised into the same near its point of division, and provided with the stay-bolt K and the anchoring-pin L inserted in the rim, as set forth.

No. 27,917. Construction of Timber Roofs.

(Construction des toits en bois.)

Robert R. Little, South Shields, and John Hall, Newcastle, Eng., 3rd November, 1887; 5 years.

Claim.—In timber roofs, the combination of the boards A, with grooves a therein, the engaging and joint covering strips B and the saddle pieces C, substantially as described and illustrated.

No. 27,918. Hydro-Carbon Furnace. (Foyer à hydrocarbures.)

Ezra T. Williams and Walter B. Wright, Troy, N. Y., (assignees of Walter B. Wright, Chicago, Ill.), U. S., 3rd November, 1887; 5

(Foyer A hydrocarburst.)

Extr. T. Williams and Walter B. Wright, Troy, N. Y., (assignees of Walter B. Wright, Chicago, Ill.), U. S., 3rd November, 1887; 5 yeats. B. Wright, Chicago, Ill.), U. S., 3rd November, 1887; 5 yeats. B. Wright, Chicago, Ill.), U. S., 3rd November, 1887; 5 yeats. B. Wright, Chicago, Ill.), U. S., 3rd November, 1887; 5 yeats. B. Wright, Chicago, Ill., as a described, the combination of a boiler and burners, a pipe H for delivering the vapor to be burned located partly within the bridge wall, a gas chamber I located within the fire-pot and connected to the gas chamber I get a strength of the provided with burners G, a gas chamber I extending transversely across the fire-pot and connected to the opposite ends of the gas chamber of the provided with burners G, a gas chamber I extending transversely across the fire-pot and connected to the opposite ends of the gas chamber K. K., K' below the pipes J and connected to a suitable steam and ill supply, and a series of pipes J connected to the opposite ends of the gas chamber at the control of the provided with the pipes J and connected to a suitable steam and ill supply, and a series of pipes J connected with said chamber at one end, and embedded at their other ends in the front wall of the furnace, the chamber and pipes being located within the fire-pot and adapted to have a fire built upon them, th. In combination with a side chamber and pipes being located within the fire-pot and adapted to have a fire built upon them, th. In combination with a side of the purpose set forth. 5th. In a hydrocarbon furnace, the chamber at the country of the purpose set forth. 5th. In a hydrocarbon furnace, the chamber at the country of the purpose set forth. 5th. In a hydrocarbon furnace, the chamber at a grate composed of a series of pipes, a water pipe connected with the strength of the purpose set forth. 5th. In a hydrocarbon furnace, and connected with the restored with the restored of pipes J adapted to form a grate surface, and connected with a series of