also the jointing and rebating of it while it lies on the flat side, may all be performed with one planing tool, in the manner substantially as herein described, and for the purpose herein set forth.
I also claim making the tongueing hand plane in such a manner as to enable the work man to make therewith, tongues of various thicknesses, substantially in the manner here in set forth, whereby I prevent the necessity of providing different tools to tongue planks of different thicknesses
I a lso claim, in combination with a divided body or plane stock, the two cutters, having each a cross-cutting and side-cutting edge, and the neans, substantially as herein described, for adjusting the distance apart of the two cutters and bodies, whereby the plane is made capable of dressing the sides of a tongue to any desired thickness, and at the same time to cut the shoulders, as herein specified.
I also claim, in combination with the gauge the use of the body, and the cross edge of the cutter, to constitute a jointer, to straighten the edge of a board, preparatory to tongueing it, and while resting on its edge, in a situation to receive the tongueing.
I also clanm the gauge, in combination with the notch, and the side edge of the cutter, acting as herein described, as a jointing plane, to straighten the edge of a board or plank, rest ing on its flat side, in a position to have a re bate cut in the manner substantially as here in set forth.
To C. T. Judkins, of Lowell, Mass., for improve ment in Weavers' 'Heddles. Dated Feb. 18, 1851 ; an e-dated Dec. 10, 1849.
I do not claim metal, in combination with harness, or heddles, when used in the solid state and fixed to the harness or heddle yarn at each end. But I claim covering, coating or lining the loops or eyes in heddles, of a har ness, with metal, by the process I have shown or by any equivalent process.
To Wm. Post, of Flushing, N. Y., for mprove

Iers. $\quad$ claim the use of swinging attachments o jibs, for moving sliding doors, or shutters, con structed and operating substantially in th manner herein shown and described.
[This is an excellent invention.]
To Philip Rhodes, of Pittsburgh, Pa., for improved natch-block.
I claim the closing up of the opening in the sides of a ship's snatch-block by means of a gate arranged and operating substantially as herein set forth, by which I am enabled to make the block shorter and more compact than it has heretofore been made.
I also claim the securing the pulley axle i its place, without the aid of screw and nut, of rivet heads, and in such a manner that it ca be readily removed by means of the combina tion of the said pulley uxle, with the enclo sing strap, and the gate strap, substantially i the manner herein set forth.
To L. H. Southworth, of Now York, N. Y., for mprovement in Planing Machine
I claim, first, the use of circularly grooved rollers in front of the cutter, to divide and cut the unplaned surface of the board, into narrow, longitudinal strips, whereby the oute shavings are taken off in narrow strings, or threads, in the manner and for the purpose herein set forth.
Second, I do not claim, simply, the arrangement of the plane stocks, with their cutters, upon the travelling frame, in such order, that one gang or set of cutters will plane one plank, by their movement in one direction, and ano ther gang of cutters plane another plank by their movement in the opposite direction, and remove the first plank planed from the bed; but this I claim, only when these are used in combination with the circular groove circula roller, as within described.
To Isaac Straub, of Cincinnati, Ohio, for improve ment in Saw Mills.
I claim the method of imparting a rocking or curved motion to the saw, and of straining the same, by mechanical devioes, substantial ly such as herein described.
To J. T. Willoughby, of Scotland, Pa., for improve
ment in apparatus for raising and carrying water I claim the double draught cord, so arran ged and connected with the ear windlass, that
it effects the two-fold purpose of propelling the carriage to and fro, and of turning the car windlass, to unwind and wind up the bucket cord, thus ensuring the descent of the bucket into the well.
To E. J. Delany, (assignor to H. J. Adamson), Philadelphia, Pa., for Design for Umbrella Stands.

Horsefiesh for Food in Prassia and Austria
In Austria the Government some time since gave, or rather renewed, a former permission for the sale of horseflesh as food. In Berlin the sale is alse legal; but in spite of the cfforts of unprejudiced philosophers, who can fall back on beef, and only patronise the equine aubstitute on principle and by way of example, the article does not find its way, avowedly at least, into consumption. Nothing seems to vercome the obstinacy of the public in this particular, and the philosophers eat and write in vain. They say, "It is reserved for the 9 th century to root out a prejudice sanctiond by civilization, and torestore horseflesh to its true place as an article of consumption.' But the 19 th centuryis in this matter one crust of prejudices. The Berlin dinners at which all is horse-flesh under different modes of preparation, are still confined to a very limited circle, and it is believed are decreasing in fre quency; but the question seems to be agitated again in Austria. There, too, the public ar averse to "strange flesh," and display a perverse preference for beef and mutton. Th xample of the lartars and the ancient Germans is repeatedly cited, but in vain. The sap their horses for the same reasons that the French cavalry in retreat from Moscow cooked their steeds, because they had nothing better and that misery makes men acquainted with trange food as well as strange bedfellows. The error of the horse eaters is, that they re ommend for consumption the old and worn out animals who are relieved by age from the hafts or the plow; they regard every hors hat escapes being eaten as so much nutrition lost to society; if they could bring into the market young and tender animals, with sithey might make more progrcss ; but a young orse is as expensive to bring up to an eatabl tate as a bullock; so that there is nothin gained.

## Propellers.

The British are constructing steam propel rs at no small rate, and we would do well to pay some attention to the seme. We were glad to see Commodore Skinner, in his las eport, recommend the building of a number of naval propellers, and it gave us equal plea ure to see the same policy recommended by the Naval Bureau of Construction. All th new coasting vessels now being built in Eng and, are propellers; and so many improve ments have been made, that they are now al most equal to the paddle steamers. The city of Philadelphia appears to be the great Ame rican port for building propellers, and fine vessels they do make. Philadelphia will yet b great place for building steamships-the rea on for expressing this opinion is her situation or coal and iron.
We sea by one of our Liverpocl papers, tha great feat was performed not long ago by a propeller built on the Clyde. The Admiral, paddle steamer of 700 tons and 300 horse pow engines, left Greenock for Liverpool, an as followed shortly afterwards by the Arno screw propeller of 750 tons and 150 horse ower, designed and built by Messrs. Wood and Reid, at Port Glasgow, and intended fo the Mediterranean trade. The Admiral had start of from two to three miles, and during the passage down the Clyde gained a little on her adversary, owing to a strong head-wind which prevailed. On getting into more open water, under a little alteration of the course of each vessel, the more ample sproad of can as by the screw boat told greatly on her spoed and she gained considerably on the Admiral and both went into Liverpool together. Th Arno's engines attained a speed of 60 revolutions per minute. She carried 600 tons of oal, aud the average speed was 14 miles pe hour. This was good sailing.

The Original Inventor of Flax Cotion. A correspondent writing to the Philadelphia Ledger, claims the invention of "Flax Cot ton" for Sands Olcott, of New Hope, Bucks Co., Pa . He says "it was brought to perfection and patented by him in 1839. It consists in taking thesun or kiln dried flax in the stem spreading it out upon a wide feeding cloth from whence it passes through a series of long fluted wooden rollers, say thirty sets, that is sixty altogether, viz: thirty upper and thirty lower rollers, which so crush and break the stalk, that most of the wood drops from the fibre and renders the process of cleaning it easy.
The flax when separated from the wool is wisted into a rope; the rope should be rove bout the thickness of a stout man's arm This rope is then passed through another series fluted rollera about six inches wide, and made either of wood or metal, the ends ar twisted together, and an endless rope thu nade ; the rollers (a series of 20 or 30 sets) are then put in motion and a stream of water se fowing over them. The rope passing throug in an endless round, the remaining particles o wood, or shives as they are techanically called, are rapidly separated from the fibre, the gluten and coloring matter washed out, and the fibr tself reduced and divided into smaller and iner tribes. After the process has been con inued a few heurs, the rope is withdrawn much iminished in size, and quite white. On en wisting it when dried the product is "flay cot ton."
This article is much more beautiful than the nest cotton, it is almost as soft as silk, an xceedingly glossy, but when closely examine prosents many imperfections. The fibre vary from half an inch to three inches in ength, while the polished glossy surface o ach fibre prevents their adhesion. The firs difficulty Mr. Olcott obviated, by a machine e invented, that tore or separated the rov into equal parts, but the last difficulty, he ne ver successfully overcame.
Mr. Olcott, after several unsuccessful effort to introduce his invention in this part of the country, went to Cincianati, and applied it to the breaking and preparing of hemp, for the making and bagging and rope at the factory a Newport. He died there of consumption, in 1841 or '42."
[The above process will, no doubt, do al hat is claimed for it. Mr. Olcott obtainod wo patents for his invention-not in 1839, as mentioned above, but in March and Apri 1840.-ED.]

Sharp Frosts in Valley
Lawrence Young, Chairman in the State Fruit Committee for Kentucky, to the Pomological Congress, states the following fact in il ustration of the advantages of planting tende ruit trees on elevated ground instead of in valleys:-Lieut. Mauray placed a thermome ter on a high portion of his orchard grounds, and another at the bottom, thirty-five feet lowor. At 1 A. $u$. he found the thermometer a the bottom at $28^{\circ}$, and being surprised to see that on the hill at $33^{\circ}$, changed their position but was soon convinced that there was a dif ference in temperature between the two point f five degrees.

Preserving Fresh Beef, \&c
Mr. Robin has communicated a paper to the Academy of Sciences, Paris, detailing a number of experiments made by him in the preser ation of animal substances. He states that coal oil, chloroform, ether, and some other oils, preserve animal substances. By placing fresh beef in a well stoppered bottle, with a sponge containing coal oil, sulphuric ether, or chlooform, at the bottom, he was able to preserve the meat fresh for eight months. The vapo chloroform and of rectified coal oil, pre erved the meat in color and form porfectly resh. This is something of great importance He recommends the use of pure coal oil, in the preparations of leather, such as for curry ing; also for the preservation of anatomica specimens and the embalming of bodies.

Nutmega have been found growing wild in Australia. This will no doubt injure the siness of Ceylon in that ktnd of ware

