It may not be out of place to mention a number of purposes to which the wood and bark of the tree are applied. Bread of birch bark from Lapland, made as long ago as 1807 shows one of the very many uses to which birch bark is or may be put. Shoes made of strine of bark. used by the peasants of Northern Sweden when at work in their distant meadow swamp; nuat baskets in which they sell wild wild raspberrie;; and a specimen of the well known Alphorn from Switzerland, by no means exhaust the enumeration of articles illustrating birch bark at Kew. It is a valuable tanning agent, and an oil obtained from it is largely used in the preparation of Russian leather; indeed, it is to this oil that the peculiar fragrance of that article is due. Formerly the highlander used the outerlayers for lighting purposes, and, before the invention of paper, the inner ones for writing upon. The sap is convertible into wine, vinegar and spirit; when fresh it form an agreeable beverage, and an intoxicating liquor when fermented. The wood is esteemed for light turnery work, and is at the present time largely employed in the manufacture of spools or cotton-reels.—Gardening Illustrated.

WOOD-WORKING PATENTS.

The following list of patents relating to the wood-working interests, granted by the United States Patent Office, December 15th, 1885, is specially reported by Franklyn H. Hough, solicitor of American and Foreign patents, 925 F. Street, N. W., Washingston, D. C.

332,241-Lumber drier-O. A. Duke, Clanton. Ala.

332,273-Saw guide-P. Miller, Norwich, onn.

332.365-Saw mill, band-S. Stephens, Inlianapolis, Ind. 332,691-Saw mill, circular-H. Wright, New

Lisbon, Ohio. 332,611-Saw mill, portable-H. Wright, New

Lisbon, Ohio. 332,611-Saw sharpening machine-D. W. Johns, New Albany, Ind.

332,291.—Sawing machine, scroll—A. D. Goodell, Millers Falls, Mass.

PATENTS ISSUED DEC. 22.

332,817-Lathe attachment-W.Middleditch, Detroit, Mich.

332.806- athe tool holder-C. H. Kellev. Somerville Mass.

333,016-Lauc, turning-O. Kromer, Sandusky, Ohio.

332,991-Lumber drying Platen-N. S. Bouon, Hyde Park, Ill.

332,864-Measure, lumber-E. N. Barber, Kent, Ohio.

332,714-Saw mill, circular-R. B. Holt, Juthrie, Ky.

\$33,092.—Saws, device for filing and jointing ircular-A. Winkler, Oneonta, N. Y.

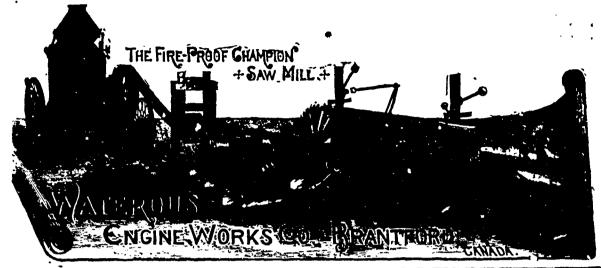
Shafting.

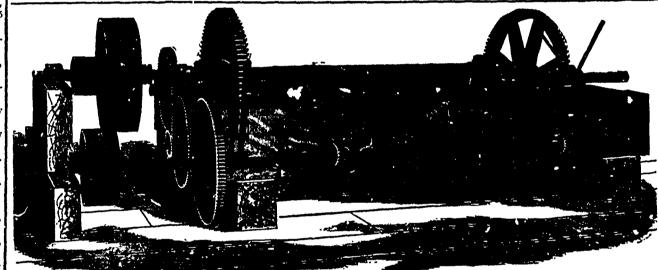
A firm which makes a speciality of the erection of shafting, states that its experience teaches that the loss of power due to improper conditions in the line shafting amounts to 50 per cent of the engine power employed, and that the defects most commonly found are as follows: - Shafting too light for the duty, crooked shafting, hangers too far apart, hanger bearings too short, pulleys too heavy and not properly balanced, hangers which are not adjustable and not self-adjusting and sometimes filled with spurious Babbitt metal, and improper proportion between two pulleys connected by the same belt.

Seuthwestern Lumber Pool.

In April last the railroads centreing in Chicago formed a pool on lumber, the provisions of which shut out the Kansas City markets and left the Nebraska markets open for competition. The arrangement was not so saturfactory to the Chicago road as was expected, for the Northwestern dealers floated their logs down the Mississippi to various points, where they were cut into lumber, and from these places the Burlington and Rock Island carried the lumber to market. It is estimated that Chicago lost 20 per cent of its Missouri lumber business by this rrangement.-Lumber Trade Journal.

PORTABLE AND STATIONARY SAW-MILLS AND SAW-MILL MACHINE





Cheese Box and Basket Stuff Machine

Waterous Engine Works Co., Brantford and Winnipeg

The Clyde Shipbuilding Trade.

During the past month 13,480 tons of new shipping was launched from the Clyde shipvards, compared with about the same quantity in November 1884, and 43,700 tons in the same month of 1883. The aggregate tonnage placed in the water in the course of the eleven months has been 171,084, being 91,838 tons below that of 1883, and no less than 198,600 tons short of the tourage launched in the corresponding period of 1883. It is gratifying to notice that upwards of 30,000 tons of new contracts have been placed in the past month; but even with this very important addition to present orders, some of the yards remain practically empty, and a number of others are but scantily supplied with work. First-class steel screw steamers are constructed at £27 a ton : ditto. iron, £26 15s.; second-class screws, £22; cargocarrying iron screws, £10 15s.; first-class iron sailing vessels, £11 7s. 6d.; second ditto, £11 2s. 6d.; third ditto, £9 15s. - Ironmonger.

Mrs. Barnhart, comer Pratt and Broadway has been a sufferar for twelve years through rheumatism, and has tried overy .cmedy she could hear of, but received no beneat until she tried Dr. Thomas' Eclectric Cil; she says she cannot express the satisfaction she feels at having her pain entirely removed and her rheumatism cured. There are base imitations of this medicine for sale; see that you get Dr. Thomas' Eclectric Cil.

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CONSTIPATION

Is entirely overcome by using NORMAN'S ELECTRIC BELTS. No injury can result, and they are pleasant to wear. Try one and be cared. Guaranteed genuina. Circular and consultation free. A. Norman, 4 Queen Streen East, Toronto.

Paranaonoven, 29th September, 1884. This is to certify that I have used one of Norman's Electric Shoulder Braces for my boy 7 years of age, for Spinal Curviture, with very beneficial results. JONAS H. PASHLEY.

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Da. E. C. Weer's NEXUE AND BRAIN TREATMENT, guaranteed specific for Hysteria, Dissiness, Convulsions, Fits, Nortrous Neuralgia, Headache, Nerrous Prostration caused by the use of sloohol or tobacco, Waketuiness, Manbal Depression, Softening of the Brain resulting in Insanity and leading to misery decay and de' b, Premature Old Age. One box will cure recent cases. Edit box contains one month's treatment. One dollar a box, or six boxes for five dollars; sent by mail prepaid on receipt of price. We guarantee six boxes to cure any case. With each order received by us for six boxes, accompanied with five dollars, we will send the purchaser our written guarantee to refund the money if the treatment does not effect a cure. Guarantees swand only by J. D. TULLY effect a cure. Quarantees ferned only by J. D. TULLY Druggiet, Sole Agent for Peterborough.