band having a raised receptacle for one end of a reel plate on one portion of its surface, and a groove struck from the inside on an opposite portion, in combination with a cam working in said groove laving a lever attached and adapted to fasten said band over said reel plate, and a metal reel seat adapted to surround the butt of a fishing rod, and having a raised receptacle for the other end of said reel plate fixed thereto, substantially as and for the purpose herein set forth 2nd. In a reel fastening for a fishing rod, a loose or sliding band having a raised receptacle for one end of a reel plate on one portion of its surface, and a groove struck from the inside of an opposite portion, in combination with a cam working in said groove, having a lever attached and adapted to fasten said band over said feel plate, and with the butt of a fishing rod having a raised receptacle for the other end of said reel plate fixed thereto, substantially as and for the purpose herein set forth. 3rd. In a reel fastening for fishing rods, a loose or sliding band having a raised tapering receptacle for one end of a reel plate, and a groove struck from the inside, in combination with a cam to work in said groove, having a lever attached, adapted to tighten said band upon, and release it from said reel plate, substantially as and for the purpose herein described. 4th. In a reel fastening for fishing rods, a loose or sliding band having a groove struck from the inside for the reception of, and in combination with a cam to work in said groove, having a lever attached, adapted to tighten said band upon and release it from a reel plate, substantially as and for the purpose herein described. 5th. In a reel fastening for fishing rods, a loose or sliding band having a raised tapering receptacle for one end of a reel plate, in combination with a suitable device for tightening said band upon said plate, substantially as and for the purpose herein set forth. 6th. The combination of a sliding band b, with its raised portions c and i lever g,

No. 19,543. Roller Mill. (Moulin à Cylindres.)

No.1 19,543. Roller Mill. (Moulin à Cylindres.)

Jesse Warrington, Indianapolis, Ind., U.S., 9th June, 1884; 5 years. Claim.—1st. The combination, in a roller-mill, of the swinging roll-supporting arms, means for holding said arms inwardly at both the pand of the bottom, springs which when compressed permit said the bottom, springs which when compressed permit said arms at the bottom, springs which when compressed permit said the part of the combination, in a roller-mill, of the swinging roll-top and the bottom, springs which when compressed permit said the bottom, springs which when compressed permit said the part of the combination, in a roller-mill, of rolls supporting arms the permit she reference of the combination, in a roller-mill, of swinging arms supporting one of the orbination, in a roller-mill, of swinging arms supporting one of the orbination, in a roller-mill, of swinging arms supporting one of the pair, and spring on the rods at the ends of the arms interprited to the ends which support the roll, and beyond the supporting the roll supported thereby toward the other roll of popular and the roll supported thereby toward the other roll of popular and the roll supported thereby out and the roll supported thereby is need to respect to the roll supporting the private of the roll supporting the private of the roll supported thereby is need to respect to the roll supporting the roll supporting the roll supported thereby is need to respect to the roll supporting the roll supported thereby is need to respect to the roll supporting the roll supported thereby is need to respect to the roll support to the roll supporting the roll supported thereby is need to respect to the roll support to the roll supporting the roll supporting the roll supported thereby is need to res

work N, said frame-work and a screw, whereby the position thereof can be adjusted, substantially as set forth. 15th. The combination of the counter-shaft L, the yoke N mounted on pivots n and the screw O provided with hand-nuts ol. ol. substantially as shown and described and for the purposes specified 16th. The combination, with a grinding roll of a roller-mill, of a scraper consisting of a blade mounted in slides on the frame-work, and weighted levers mounted on fulcrums and adapted to keep said blade in contact with said rol, substantially as set forth. 17th. The combination, in a roller-mill, of a grinding roll, a scraper blade P, slides p therefor, weighted levers Pl and tulcrums pl therefor, the points of said levers extending under and holding said blade in position, substantially as set forth. 18th. The combination, in a roller-mill, of a grinding-roll, a scraper-blade having notches in its lower edge, and levers which extend across and rest upon fulcrums, and pass under and enter said notches, whereby said levers are secured against endway movement on said fulcrums, substantially as set forth. 19th. The combination of a scraper-blade weighted levers for sustaining said sor-per-blade, and fulcrums on which said levers are mounted, said fulcrums being flatiened, and said levers having lips p2 adapted to come in contact with the side of said fulcrums and thus hold said levers from too great a movement, substantially as set forth. 20th. The combination of the scraper-blade P, the weighted lever P I having lips p2 on the weight side of the fulcrum, and the fulcrum p1 flattened or extended downwardly to form a stop, with which said lip may come in contact, substantially as shown and specified.

No. 19,544. Lumber Dryer. (Sécherie à Bois.)

No. 19,544. Lumber Dryer. (Sécherie à Bois.)

Aaron S. Nicholas, Chicago, Ill., U.S., 9th June, 1884; 5 years.

Aaron S. Nicholas, Chicago, Ill., U.S., 9th June, 1884; 5 years.

Claim.—1st. The herein described platon for drying lumber, consisting of a flat coil of tubing combined with trunsverse series of bars or strips arranged to form bearings for the lumber on opposite sides of said flat coil of tubing, the bars of the series arranged to leave an opening between them, the said coil of tubing constructed for connection with, and discharge of a supply of steam or hot water, substantially as described. 2nd. The combination of a coil of tubing, with trunsverse series of strips or bars arranged to form bearings for the lumber on opposite sides of said flat coil, the bars constructed with their surface next the coils flat and the outside surface rounded, the bars arranged to leave an opening between them and the said coil constructed for onnection with and d scharge of a supply of steam or hot water, substantially as described.

No. 19.545. Lever. (Levier)

Daniel Buckley, Boston Mass., U.S., 9th June, 1884; 5 years.

Daniel Buckley, Boston Mass., U.S., 9th June, 1884; 5 years.

Claim.—1st. In a device substantially such as described, the arm A provided with the slot x, and studs m, d, and the arm B provided with the slot x, and studs in combination with means for clamping said arms together and journaling or pivoting them, substantially as described. In a device substantially such as described, the screw-bott D provided with the round elogated head z and flat ened portion t, in combination with the nut E have given round elogated body v for journalling and clamping the arms A B, substantially as set forth. 3rd. In a device substantially such as described, the sta diard C provided with the bott D and nut E ad pied to champ adjournat the arms A, B, substantially as described 4th. The improved exters ble lever, herein described, the same consist gof the arm A provided with the slot x sinds d.m, and ho es r, the arm B provided with the studs i, slot x and notes r, the scr. w-bolt D h ving the rounded head z and flatened portion t, the cut c. hiving the rounded bedy v, and the support C provided with the standard l, f, constructed, combined and arranged to operate substantially as set forth. 5th In a device substantially such as described, the arms A, B provided with the holes r for a taching auxiliary arms to lengthen the lever, substantially as described.

No. 19.546. Vanouer Rupper (Rec. & Gaz)

No. 19,546. Vapour Burner. (Bec à Gaz.)

Clarmont V. Best. Martin L. Best. Levi L. Miller, and Jacob Miller, Canton Ohio, U.S., 10th June 1884; 5 years

Claim.-1st. The combination, with the angular heating-plate B, Claim.—1st. The combination, with the angular heating-plate B, of the inclined passage d communicating with the mixing-chamber near the upper end to form an oil jut, substantially as and for the purpose set forth. 2nd. The angular heating plate B provided with corner side extension q, substantially as and for the purpose specified 3rd. The angular heating plate B and inclined passage d, in combination with the passage f having its upper portion extending along the underside of said angular heating plate, substantially as shown and described.

No. 19,547. Improvement in Dentistry.

(Perfectionnement dans l'Art Dentaire.)

Lucius T. Sheffield, (assignee of Cassius M. Richmond,) New York, N. Y., U. S., 10th June, 1884; 15 years.

Claim.—lst. The process of preparing roots for the reception of artificial dentures, which consists in grooving the same by opposite grooves, and then suddenly removing the crown from the root by suitable forceps, substantially as described. 2nd. The process of preparing a root for the reception of an artificial denture, which consists in removing the crown from the root by a suitable contrivance, and then immediately expelling the nerve from its cavity by driving a suitably-shaped piece of wood into the nerve cavity, substantially as described. 3rd. The process of treating and preparing the roots of teeth the same consisting in suddenly expelling the nerve from its cavity, as set forth, and then instantly filting the nerve cavity with a wooden plug, substantially as set forth. 4th. The process of preparing a root for the reception of an artificial denture, which con ists in grooving the same, in cutting off the crown from the root by suitable forceps, in immediately driving into the nerve cavity a suitable forceps, in immediately plugging or filling the upper part of the nerve cavity by driving in another piece of wood, substantially as described. 5th. The process of treating teeth to remove the nerves, the the same consisting in isolating the tooth to be treated, and then sub--1st. The process of preparing roots for the reception of