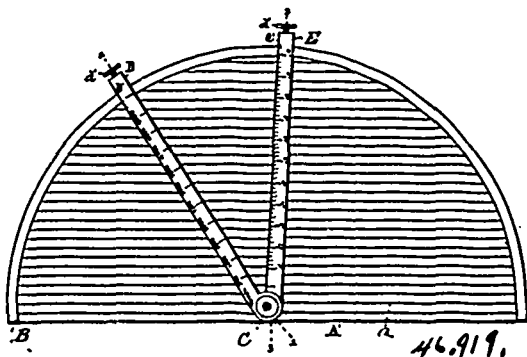


phery loosely mounted upon said shaft, a stationary head adjacent said drum, a stud carried by said head, a pinion operating upon said stud, and a pinion keyed upon a shaft with which the pinion upon the stud meshes in order to revolve the drum. 2nd. In a device of the class described, a drum having a stationary head, a stud carried by said head, a pinion operating upon said stud and adapted to mesh with the internal gear of the drum, and a pinion keyed upon said shaft. 3rd. In a device of the class described, an arm provided with a head, a spring-actuated pin passing through said head, and a screw-bolt passing through said head, thus forming means for operating different thicknesses of lumber. 4th. In a device of the class described, a segmental lever carrying a plurality of series of pawls, said pawls engaging with the teeth of the ratchet-wheel. 5th. In a device of the class described, a segmental pawl-trip provided with an outwardly projecting flange and handle, said outwardly projecting flange adapted to engage upon the rear ends of the stationary and moving pawls, thereby disengaging the points of the pawls from the ratchet-wheel and allowing the drum to reverse its motion. 6th. The combination, with knee-blocks, of a shaft, a drum loosely mounted upon said shaft and having a perforated periphery and internal cog-teeth, a pinion upon said shaft opposite said teeth, a pinion mounted upon the stationary head and meshing with the pinion and internal gear of the drum, a spring actuated pawl adapted to engage the perforations of the drum, means for disengaging the pawl from the perforations, an arm provided with a rectangular head, a spring actuated pin passing through said head and engaging in the perforations of the stationary head, a screw-bolt passing through the head to form a stop, and a segmental lever carrying a plurality of series of pawls engaging with a ratchet-wheel, said ratchet-wheel being rigidly mounted upon said shaft. 7th. In a device of the class described, the combination of the automatic setting mechanism comprising a perforated drum, a shaft carrying a pawl and spring actuated arms, and the stationary head peripherally perforated, together with the arm provided with the integral head in which is mounted a spring actuated pin and screw threaded adjustable stop-bolt. 8th. The combination, with knee-blocks, of a shaft carrying pinions engaging therewith, a drum having a perforated periphery loosely mounted upon the said shaft, but revolved thereby, a dog adapted to engage the perforations in the said drum, means for rotating the said shaft, and a spring contained within the drum and around the shaft for rotating the latter in the opposite direction, substantially as described. 9th. The combination, with knee-blocks, of a shaft carrying pinions engaging therewith, a headed drum loosely mounted upon the said shaft, and having a perforated periphery and internal cog teeth, a spring adapted to rotate the said cylinder in one direction, a pinion upon the said shaft opposite the said teeth, and a pinion mounted upon the head of the drum and gearing with the said teeth and with the opposite pinion upon the shaft, and a spring actuated dog adapted to engage in the perforations in the said drum, substantially as described. 10th. The combination, with knee-blocks, of a shaft carrying pinions engaging therewith, a headed drum loosely mounted upon the shaft and having a perforated periphery and internal cog-teeth, a pinion upon the said shaft opposite the said teeth, a pinion mounted upon the head of the drum and gearing with the said teeth and with the opposite pinion upon the shaft, a spring actuated dog adapted to engage in the perforations in the said drum, means for rotating the shaft, and a spring contained within the drum and around the shaft for rotating the latter in the opposite direction, substantially as described.

No. 46,919. **Device for Determining the Location of a Distant Object.** (*Appareil pour déterminer la position d'un objet éloigné.*)

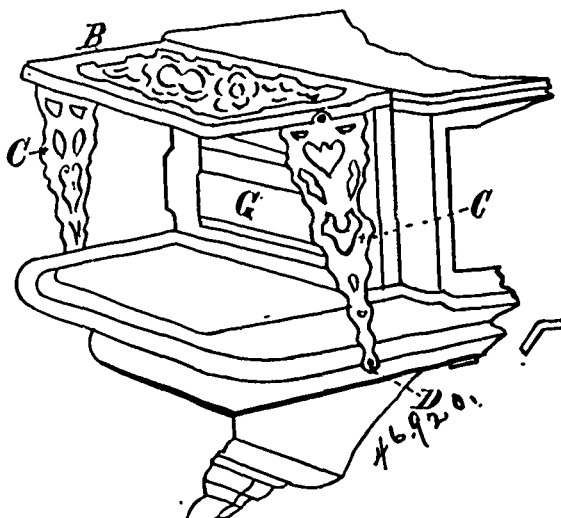


William C. Rafferty, Governor's Island, New York, U.S.A., 1st
September, 1894; 6 years.

Claim.—1st. A device for determining the location of a distant point, comprising a base having a scale or graduation and pivotally mounted arms operating upon said base, substantially as set forth.
2nd. A device for determining the location of a distant point, comprising a base having a scale or graduation, the surface of said base being provided with parallel grooves or lines pivotally mounted

arms operating upon said base and means for limiting the movement of said arms relatively to each other, substantially as set forth. 3rd. A device for determining the location of a distant point, comprising a base having a graduated rim, arms pivotally mounted upon said board and having scales or graduations, and a spacing piece adapted to be placed between said arms, substantially as set forth. 4th. A device for determining the location of a distant object, comprising a semi-circular board having a diagonal graduation near its periphery, pivotally mounted arms having graduations or scales and verniers for use in connection with said diagonal graduation upon the board, and a spacing piece, substantially as set forth. 5th. A device for determining the location of a distant point, comprising a board, two arms mounted upon a pivot secured thereto, and a spacing piece having sharp edges and adapted to be placed between said arms, substantially as set forth. 6th. A base for use in connection with a device for determining the location of a distant object, said base being provided with parallel divisions and having a scale or graduation indicating the degrees of a circle, substantially as set forth. 7th. A base for use in connection with a device for determining the location of a distant object, said base having a diagonal scale or graduation numbered on both sides and indicating the degrees of a circle, substantially as set forth. 8th. A base for use in connection with a device for determining the location of a distant object, said base having a diagonal scale or graduation indicating the degrees of a circle, and an arm operating in conjunction with said board, and having a vernier indicating the parts of a degree upon said scale or graduation, substantially as set forth. 9th. A device for determining the location of a distant object, comprising a base, two arms mounted upon a common centre on said base, one of said arms having a graduation indicating, on reduced scale, the distance of an object from a third point, and the other arm having a graduation indicating, also on reduced scale, the distance of the object from the device, and a spacing piece for limiting the movement of the said arms toward each other, substantially as set forth. 10th. A device for determining the location of a distant object, comprising a base, two arms mounted upon a common centre, a spacing piece for limiting the movement of said arms toward each other and a guide for said spacing piece, substantially as set forth. 11th. A device for determining the location of a distant object, comprising a base, two arms pivotally mounted upon a common centre, means for clamping said arms in any position upon said base, a spacing piece and means for guiding the same, substantially as set forth. 12th. A device for determining the location of a distant object, comprising a base, two arms mounted thereon, one of which is provided with a curved edge, and a spacing piece for limiting the movement of said arms toward each other, substantially as set forth. 13th. A device for determining the location of a distant object, comprising a base, two arms mounted thereon, one of which is made in two parts, one of said parts having a curved outer edge, substantially as set forth. 14th. A device for determining the location of a distant object, comprising two arms mounted upon a common pivot and representing two of the sides of a triangle, the apex of which is the object, one of said arms having a scale or graduation indicating the distance of the object relatively to a third point and the other having a scale or graduation indicating the distance from the object to the device, and a spacing piece representing the base of the triangle and determining the movement of the latter arm toward the former, substantially as set forth.

No. 46,920. Cooking Stove. (Poêle de cuisine.)



William Joseph Copp, Hamilton, Ontario, Canada, 1st September,
1894: 6 years.

Claim. 1st. The combination of the levers M, with the brackets C, for holding the shelf B, against the top plate A of the stove.