V having a portion q on a level with or slightly above the cloth plate, and a pivoted arm s carrying the feed point or points, with mechanism whereby both bar and arm are intermittently reciprocated horizontally, and whereby the arm is made to intermittently vibrate vertically. 21th. The combination of the bar V, the arm s pivoted to the same, the vibrating feed lever T adapted to slots in the said bar and arm and having an adjustable pivot. 13th. The combination of the counter shaft K and its two cams p p, the feed lever T and its adjustable fulcrum, the arm U loosely connected to the bed plate and serving as a medium through which the movements of the feed arm are determined. 14th. The combination of the rotating hook h with a fixed shuttle having a nose grooved for the reception of the hook. 15th. The combination of a spool case, a spool and a spring acting on one end of the spool and tending to force the opposite end of the same against a face formed in the case, with thread guides which direct the spool thread between the end of the spool and said face. 16th. The combination of the shaft J, the clutch disk 1st secured thereto, the loose pulley E, having a belt wheel h and peripheral driving flange d means for clutching the pulley to the disk, and a hand wheel, whereby the shaft J may be turned when the disk, D is released from the pulley E. 17th. The combination of the shaft J, the driving pulley E loose thereon, the disk D is secured to the shaft and having a flange \(\alpha\), the driving pulley E loose therein, and having a hub \(e\) with annular recess \(\alpha\), the diving pulley E loose therein, and having a short arm \(\alpha\) with eccentric face and means for operating said lever. 18th. The combination of the shaft J, the driving pulley E loose therein, and having a short arm \(\alpha\) with annular recess \(\alpha\), the diving and having a conical end, and means for reciprocating said sleeve. 19th. The combination of the clutch actuating sleeve F having an arm J and a v-shaped recess \(m having a portion q on a level with or slightly above the cloth plate, spring h.

No. 13,351. Improvements in Lamps. (Perfectionnements dans les lampes.)

The Compagnie (46nérale Belge de Lumière Electrique, (Assignee of Antoine Bureau), Brussels, Belgium, 1st September 1881; for 5

Claim.—The improved sun lamp, composed of a grooved refractory block. 2nd. In an electric lamp, the arrangement of the carbons in the block. 3rd. In an electric or other lamp, the block formed totally or partially of refractory material, and of one or several pieces, in combination with the box or shell. 4th. The improved arrangement of parts forming the lamp.

No. 13,352. Improvements on Hoof Expanders. (Perfectionnements aux appareils à ourrir les sabots des chevaux)

David Roberge, New York, N. Y., U. S., 1st September 1881; for 5 years.

Claim.-A hoof expander composed of a single length of spring wire or other suitable material having formed thereon one or more bow eyes a, together with two legs b b provided with prongs or pins d d.

No. 13,353. Improvements on Journal Bearings for Car Axles. Perfectionnements aux con sinets des tourillons pour les essi ux des chars.)

David A. Hopkins, Park Ridge, N. J., U.S., 1st September 1881; for 5

years.

Claim.—1st. A journal bearing constructed on its journal side with tapering ridges and contiguous cavities, said ridges being made so weak as to be readily crushed down into, and turned or spread out in said grooves. 2nd. A journal bearing having contiguous grooves or cavities and tapering ridges, in combination with a stiff lubricating material placed in said grooves, all arranged so that the lubricating material will be expelled from said cavities by the metal of said ridges being crushed into, and spread out in them. 3rd. A pendant lip d and the recess c and the aperture y leading from the front upper part of said upper lip at or near where it is joined to the bearing, into said recess. 4th. A journal bearing constructed on its wearing surface with alternate grooves and weak ridges, and provided with cross ridges a. 5th. A series of bands of soft metal projecting beyond the hard metal surface of the journal side of the bearing. 6th. A bearing having its journal side provided with ridges of such construction, composition and nature that by the operation of load pressure applied to the bearing, and the revolution of the journal they will be crushed down and spread.

No. 13,354. Improvements in Electric Lamps. (Perfectionnements aux lampes électriques.)

Leonidas G. Woolley, Union, Ind., U.S., 2nd September 1881; for 5

Years.

Claim.—1st. The combination of a hollow carbon holder and a regulating mechanism, the moving parts of the mechanism being placed in the carbon holder. 2nd. The combination of a helix or axial magnet, a core, a hollow carbon holder, and a regulating mechanism, the moving parts of which are placed in the holder and operated by the core and helix. 3rd. The combination of the hollow carbon holder, a dash or plunger and a regulating mechanism the moving parts of which are placed therein the distance that the regulating mechanism shall move being controlled by the dash. 4th. The regulating mechanism or device composed of a frame and a pivoted lever, in combination with a core which raises the mechanism and carbon holder upward, the carbonholder and helix. 5th. The combination of the tube C having the axial magnet applied to its upper end, a hollow carbon holder which forms a dash pot, the core N having the rod 0 fastened to it, and a clamping

device which is placed in the dash pot and which is operated by the core so that, when the core is raised upward, the clamp will engage with the inner side of the dash pot and raise the earbon holder upward. 6th. The combination of a stem having a hole through its end and provided with a set screw, with a carbon or electrode holder made in two parts which are united by a solder, or other substance, which fuses at a low temperature, and a chain for holding the carbon-holder when detached from the stem. Ith A carbon-holder made in two parts which are connected together by solder, or other substance which will fuse at a low temperature, so that, in case the holder should become heated, the two parts will separate. 8th. The combination of a carbon or electrode holder, which is made in two parts and united together by a substance which fuses at a low temperature, with a chain which is fasted to both parts. 9th. The combination of the stem Al having a non-conducting substance secured to its lower end, with a carbon or electrode holder made in two parts, which are secured together by a substance which is fusible at a low temperature, and a chain which is fastened to both parts for the purpose of preventing one of them from falling. 10th. A carbon-holder or guide composed wholly or partly of a metal which fuses at a low temperature, in combination with a chain or other suitable device, for preventing the carbon or its holder from falling. holder from falling.

No. 13,355. Improvements on Sewing Machines. (Perfectionnements aux machines d coudre.)

Lansing Onderdonk, Adams Station, Campbell C. Brown and Henry P. Wells, New York, N.Y., U.S., 2nd September, 1881; for 10 years.

chines. (Perfectionnements aux machines dendire.)

Lansing Onderdonk, Adams Station, Campbell C. Brown and Henry P. Wells, New York, N.Y., U.S., Zul September, 1881; for 10 years. Vacin.—1st. In a gathering and plaiting attachment, a bed plate datapted to be secured to the cloth plate of a sewing machine, said bed plate being provided with an extension forming a recess in which a standard serving as a support for actuating levers and control of the state of the control of the contr