

scribed. 9th. In a time-lock, the combination, with a guard for checking the operation of the bolt-work, and an indicator-pointer, of a dog or pawl for holding the guard temporarily out of action, an adjustable supplemental tripping device for throwing the dog out of engagement with the guard, a main tripping device for throwing the guard out of action, and a revolving plate or disk for carrying said tripping devices, substantially as described. 10th. In a time-lock for safes, the combination, with a guard for checking the operation of the bolt-work, and a dog for holding said guard out of action, of a single indicator-pointer, a revolving plate having two slots therein, two tripping devices, one for the guard and one for the dog adjustably held in said slots, two clock-movements and gear-wheels, for connecting said pointer and revolving plate, substantially as and for the purpose set forth. 11th. In a time-lock mechanism for safes, the combination, with the main bolt-work of the safe, of mechanism for throwing the main bolt-work to lock the safe, and clock mechanism for automatically releasing said bolt-throwing mechanism, substantially as described. 12th. In a time-lock mechanism for safes, the combination, with the bolt-work of a spring for throwing said bolt-work to lock the safe, a trigger or stop for temporarily restraining the action of said spring and a tripping device operated by suitable clock-work to release said trigger and automatically lock the safe, substantially as set forth. 13th. In time-lock mechanism for safes, the combination, with the bolt-work, of a spring for automatically throwing said bolt-work to lock the safe, a spring for automatically with drawing the bolt-work to unlock the safe, a trigger or stop for temporarily restraining the action of said locking-spring, and tripping devices for said trigger and guard, whereby the safe can be automatically locked and unlocked, substantially as set forth. 14th. In time-lock mechanism for safes, the combination, with the bolt-work, of the sliding rod connected with the bolt-work, the coiled springs upon said sliding rod, the trigger for temporarily checking the movement of the bolt-work, the releasing-lever for said trigger, the latch-bar, the guard and tripping devices for acting upon said guard and the releasing-lever, substantially as described.

### No. 22,703. Machine for Grinding Tools.

(Machine à Rémouler les Outils.)

Nicholas Brickell and Thomas J. Brickell, Brinkley, Ark., U.S., 2nd November, 1885; 5 years.

*Claim.*—1st. A device for grinding tools, composed of a bench A, grindstone B, uprights attached to the said bench and adjusted in position by braces L, Lt, having holes *l* to engage pins *l*, clamp G having set-screws *g* and a handle *g*, rocking cross-piece E, arm K, connecting-link H, lever F having a plate *f*, and a post J having a plate *j*, in which are notches *j*, substantially as shown and described. 2d. A device for holding tools to be ground comprising uprights C, C, rocking cross-piece E, clamp G, arm K, connecting-link H, lever F and notched post J, all substantially as and for the purpose set forth. 3rd. In combination with a grindstone and bench, uprights C, C, having adjustable braces L, Lt, a rocking cross-piece E, clamp G and handle *g*, substantially as set forth for the purpose specified. 4th. A rocking-piece E having pieces *e*<sub>1</sub>, *e*<sub>2</sub>, and a thumb-screw *e*<sub>3</sub>, and upright bearings C, C, combined with a clamp G having set-screws for holding, and a handle for turning the tool to be ground, substantially as shown and described for the purpose set forth.

### No. 22,704. Numbering Attachment for Printing Presses. (Appareil à Paginer pour Presses d'Imprimerie.)

Albert R. Baker, Indianapolis, Ind., U.S., 2nd November, 1885; 5 years.

*Claim.*—1st. In a cylinder printing-press, the combination of a rotary cylinder, a series of numbering-heads placed therein and arranged in one or more rows, and an independent frame arranged outside the said cylinder and carrying a series of trips arranged in one or more rows, extending in the direction of the rotation of the said rotary cylinder, and corresponding to the position of the numbering-heads, substantially as shown and described and for the purpose specified. 2nd. In a cylinder printing-press, the combination of a rotary cylinder, a series of numbering-heads placed therein and arranged in one or more rows extended in the direction of rotation, and an adjustable frame arranged outside the said cylinder and carrying a series of trips arranged in one or more rows, corresponding to the row or rows of numbering-heads, substantially as shown and described. 3rd. The combination, in a cylinder printing-press, of the ordinary impression cylinder B, the numbering cylinder C, made one-half the diameter of cylinder B and geared therewith, the frame E carrying trips and having slotted arms, the blocks to which said slotted arms are fitted, the spring arranged in said arms and the rod G connected to said frame E, and means, substantially as described, for operating said rod, substantially as shown and described. 4th. The combination of the numbering cylinder C, and the sliding trip-frame E arranged outside the cylinder C, substantially as specified. 5th. The combination of cylinder B, the numbering-cylinder C, the trip-frame E, the adjusting rod G, the eccentric or cam *h*<sub>2</sub>, the pinion *h*<sub>1</sub> carrying said cam, and the pinion *h* one-half the diameter of pinion *h*<sub>1</sub>, and mounted on the shaft of cylinder B, substantially as shown and described and for the purpose specified. 6th. The numbering-cylinder C, having the supporting-frame D, provided with standards *k*, *k*<sub>1</sub> having hinges *l* and slotted parts connected by screws *l* respectively, substantially as shown and described, to adapt the said cylinder to be turned back from its normal position, as specified.

### No. 22,705. Numbering Attachment for Printing Presses. (Appareil à Paginer pour Presses d'Imprimerie.)

Albert R. Baker, Indianapolis, Ind., U.S., 2nd November, 1885; 5 years.

*Claim.*—1st. The combination of a movable carrier, a series of

numbering devices arranged therein in one or more rows, and a series of devices, substantially as described, for operating the numbering devices, which operating devices are arranged in one or more rows extended in the direction of the movement of the carrier, and each of which rows corresponded in position to one or more of the numbering devices, whereby the operating devices of one row shall severally act upon the numbering device, or all the numbering devices corresponding in position to that row, to the end that the numbering devices shall be automatically set after numbering one sheet of blanks, for numbering the blanks of the next succeeding sheet in consecutive order following those of the preceding sheet, substantially as specified. 2nd. The combination of a movable carrier, a series of numbering devices arranged therein in one or more rows, extending in the direction of the movement of the carrier, and a series of devices, substantially as described, for operating the numbering devices, which operating devices are arranged in one or more rows corresponding to the row or rows of the numbering devices, and are made adjustable, whereby they may severally be moved out of acting position, substantially as shown and described. 3rd. In a printing-press, the combination of the bed provided with an orifice to receive numbering-heads, said numbering-heads mounted on shafts, said shafts being mounted in adjustable bearings on the sides of said orifice, whereby the relative position of the numbering-heads may be changed, substantially as described and for the purposes specified. 4th. In a printing-press, the combination, with the bed provided with an orifice wherein are mounted numbering-heads, of the catch blocks E, mounted on the bars D and provided with spring catches *e*, as a means for operating the numbering-heads, substantially as set forth. 5th. In a printing-press, the combination, with the bed fitted to receive numbering-heads, said numbering heads and the bar D secured to the frame-work underneath the bed, of the catch-block E mounted on said bar and provided with spring-catches, which are adapted to be pushed over in one direction, whereby the heads are permitted to travel reversely over them, substantially as described and for the purposes specified. 6th. The combination, in a printing-press, of the bed A fitted to receive numbering-heads, the shafts B on which said numbering-heads are mounted, said numbering-heads C having studs *c*, and the hub F, said hub being rigidly mounted on the shafts B alongside the numbering-heads, and provided with a rigid arm *f* and a spring arm *f*, substantially as described and for the purposes specified. 7th. In a printing-press, the combination, with the bed A provided with an orifice, of the bearings B for the shafts B adjustably mounted in slots in the sides of said orifice, substantially as set forth. 9th. The combination, in a printing-press, of the bed A provided with an orifice, the shafts B mounted therein, the numbering-heads E mounted on said shafts, the bars D secured to the frame-work under the bed, and the catch-blocks E provided with spring-catches *e*, one end of the spring of which is secured to the block an adjustable device *e*<sub>2</sub>, substantially as described and for the purposes specified.

### No. 22,706. Numbering Attachment for Printing Presses. (Appareil à Paginer pour Presses d'Imprimerie.)

Albert R. Baker, Indianapolis, Ind., U.S., 2nd November, 1885; 5 years.

*Claim.*—1st. The combination of a movable carrier, a series of numbering devices arranged therein in one or more rows, and a continuous operating device, substantially as described, for each row of numbering devices, which is arranged in the direction of the movement of the carrier, each said continuous operating device being adapted to act upon all the numbering devices corresponding thereto in position, giving them a throw corresponding to the number of devices in a row, substantially as and for the purpose described. 2nd. The combination of the numbering cylinder, the numbering heads having drums for rotating the same, provided with retracting springs, the straps and their connections attached to the drums, and the disks having cam plates attached to their sides for engaging the connections of the said straps, substantially as shown and described. 3rd. The combination of the numbering cylinder, the numbering heads having drums for rotating the same, provided with retracting springs, the straps and their connections attached to the drums, the guide-plates and stops for the said straps and their connecting jointed bars, and the disks having cam-plates attached to their sides, for engaging rollers on the ends of said jointed bars, substantially as shown and described. 4th. The combination of the numbering cylinder, the numbering heads mounted on shafts therein, the internal stationary disks and the arms attached to the shafts of the numbering-heads, and having rollers placed in engagement with the disks, substantially as and for the purpose specified. 5th. The combination of the numbering cylinder, having numbering heads arranged in circumferential rows and provided with actuating devices, substantially as described, with the disks having slots therein, and the cam plates pivoted at one of their ends to the disks, and having parts engaged with the slots in the disks to render the cams adjustable, substantially as described. 6th. The combination of the numbering cylinder, its stationary shaft having tubular ends provided with slots, the sleeve feathered on said shaft and having the disks, which carry the cams, rigidly secured thereto, the F-shaped or bifurcated bar connected to said sleeve, and means for shifting the sleeve on the shaft, substantially as shown and described. 7th. The combination, with the disk and cam-supporting sleeve, tubular shaft and bifurcated bar, of the eccentric engaging with a lug on the end of said bar, a retracting spring on said bar, a rod connected to the eccentric, and a system of cams of different diameters geared together, and means for holding said rod in engagement with any one of the cams, substantially as shown and described and for the purpose set forth. 8th. The combination, with the numbering heads arranged substantially as described, of the sleeve-carrying disks, which are provided with cams for operating the numbering heads, the tubular shaft supporting the sleeve, the bifurcated bar connected to said sleeve, the re-