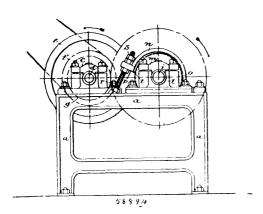
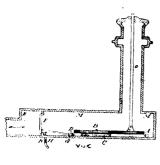
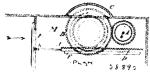
between the grooves at the other end of the segment, where they are centre of the wheel. 2nd. In a feathering paddle-wheel, the com-



delivered from the machine, substantially as described and illus trated. 2nd. In the machine for the manufacture of beads, balls and the like, as described, the combination of the frame a, bearings $k,\,l,\,$ shaft $i,\,$ and means for causing the revolution of the said shaft, drum m groved externally with a number of parallel grooves, and adjustable fixed segment n similarly grooved internally, and arranged so that the space between the grooves in the segment n and the grooves round the drum u_t is wider at the end p of the segment u_t than at the end v_t , substantially as described and illustrated. 3rd. The combination with the internally grooved segment v_t , of the screwed bolts v_t and nuts v_t by which the relative positions of the grooves round the drum m and the grooves in the segment n can be exactly adjusted and fixed, substantially as described and illustrated.

No. 58,895. Hydrant. (Borne-fontaine.)





Henry Filteau, Montréal, Québec, Canada, 3 février 1898; 6 ans. (Déposé le 8 mai 1897.)

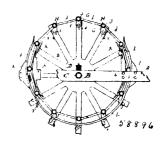
Résumé, -1 Un mécanisme spécial comprenant un clapet E, en Resume.—I Un mecanisme special comprehant un capper \mathbf{r}_{\bullet} em combinaison avec une bielle d g, une crémaillère \mathbf{D}_{\bullet} , un pignon e, une roue \mathbf{B} et un pignon \mathbf{A}_{\bullet} commandés par un arbre \mathbf{O}_{\bullet} l'extrémité d de la crémaillère pouvant, suivant sa position, découvrir ou fermer un crifice h. 2° En combinaison avec le corps d'une bornefontaine un arbre ayant un pignon engageant directement ou par fontaine un arme ayant un pagnon engage un curs con par le moyen d'une seconde roue deutee portant un second pignon, une crémaillère commandant une soupape par l'intermédiaire d'une bielle d g. Le tout pour les fins indiquées.

No. 58,896. Paddle Wheel. (Roue à nubes.)

Mary A. Davis, Spokane, Washington, U.S.A., 3rd February, 1898; 6 years. (Filed 3rd January, 1898.)

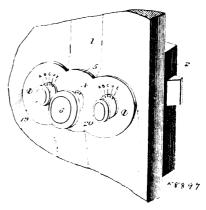
Claim. 1st. In a feathering paddle wheel, the combination with spiders having bearings near the ends of their radial arms, crankshafts journalled therein, with paddles and cranks secured thereto, links connecting the wrists of all the cranks and anti-friction rollers thereon, of cams mounted near the front and rear of the wheel and adapted to receive said rollers, the cams being practically arcs of a

grooves, which balls are finally separated by the cutting edges circle, the centre of which is the length of each crank above the



bination of the paddle shafts E E, provided with cranks G G, their wrists H H, anti-friction rollers J J, and connecting links I I, a boss i on one link engaging an eye in the other, substantially as and for the purpose set forth.

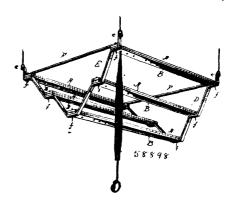
Ne. 58,897. Lock. (Serrure.)



Elijah D. Irwin and Laura B. Irwin, both of Furches, North Carolina, U.S.A., 3rd February, 1898; 6 years. (Filed 17th January, 1898.)

A combination lock, comprising the lock-case 2, the reversible bolt 12, the spindle 3 mounted in said case and having a rotary and an end motion, and provided with the transverse locking bar 9, a dial-collar 4 adjustably secured on said spindle, in combina-tion with the fixed escutcheon dial plate 5, the rotating tumbler spindles 17 and 18, provided with dial knobs 19 and 20, and the rotary tumblers 21-22 adjustably secured on said spindles 17 and 18 by the set screws 24, and provided with the radial notches 23, substantially as shown and described.

No. 58,898. Display Rack. (Râtelier-montre.)



Ulysses G. Rockwell, Groton, New York, U.S.A., 3rd February, 1898; 6 years. (Filed 17th January, 1898.)

Claim. -1st. A holding-bar for umbrellas and other articles, consisting of two longitudinal sections connected together, one of said sections having a plurality of mortised and circular seats, and circular rubber discs loosely held therein to turn freely with the umbrella or other article suspended therefrom, said sections and discs having holes on a line with each other, substantially as and for the purpose set forth. 2nd. A display rack for umbrellas, con-