alphabet drums with means for rotating the same, said parts being combined and operating substantially as described. 2nd. Alphabet drums with operating cords, and keys combined, substantially as described. 3rd. An apron with figures or objects thereon, winding drums and guide rollers, devices for operating said drums, consisting of ratchets on the drums, detents engaging with said ratchets, and keys connected with said detents, and a suitable casing, all com-bined substantially as described, 4th. In a teaching apparatus, a drum, a pulley cord passing around the same, a key and spring being com-bined, substantially as described, said key and spring being com-nected with opposite ends of said cord, whereby said cord operates the drum or pulley and afterwards creates friction thereon, as stated. 5th. In a teaching apparatus, an apron or sheet and winding devices therefor, in combination with an alarm which is operated in advance of the complete unwinding of said appron, and announces the end thereof, substantially as and for the purpose set forth. 6th. The sheet F and drums D, in combination with the cord X, stops W, a bell and bell hammer, the lattter having its heel ends adapted to be engaged by said stops, substantially as described. 7th. In a teaching apparatus, an object sheet and dividing drums therefor, ratchets and detents, in combination with deflectors for said detents, substantially as described. ubstantially as described.

No. 27,348. Picture Hook or Hanger. (Crochet ou patére d'image.)

Warren M. Brinkerhoff, Auburn, N.Y., U.S., 6th August, 1887; 5

(Crochet ou pattére d'image.)
Warren M. Brinkerhoff, Auburn, N.Y., U.S., 6th August, 1887; 5 years.
Claiman - Ist. A picture hanger, consisting of a picture cord support, and a retaining device or devices below the cord support for holding the cord in an invariably deflected position, the construction and arrangement of parts being such that the picture can be suspended upon the cord support, and while so suspended adjusted to its proper position, the cord then removably secured by the retaining device or devices by inwardly deflected position, the cord support for the same, the said body being also provided with a cord support for the same, the said body being also provided with a cord support, and a projection or projection show the picture can be suspended upon the cord support, and a projection or projection support, and a projection or projection support, and a projection or projection support, and support position without the cord support, and support position without the cord support, and support position without the cord support, and a support for the same, the said projection or projections and held, as and for purposes specified. 3rd. The prejection or projection same, the said plate having a cord support, and also provided below the cord support, for holding the cord is support for the same, the said plate having a cord support, and support, for the brain gaving the same therewith, for the purposes set forth. 4th. The herein described picture hanger, consisting of a main body provided with means for engaging a support for the same for engaging a support for the same, support for the picture cord, for the purposes set forth. 4th. The herein described picture hanger, consisting of a main body provided with means for engaging a support for the same, so and support, for the purpose set for the picture cord, for a many doty provided with means for engaging a support for the same, support for the picture cord, for the purpose set form the cord support, said the same the cord support, for t

No. 27,349. Barrel Hoop. (Cerale de baril.)

James Cosgrove, Brooklyn, N.Y., U.S., 6th August, 1887; 5 years.

James Cosgrove, Brooklyn, N.Y., U.S., 6th August, 1887; 5 years. Claim.-lst. A barrel hoop having a lengthwise cut or cuts, pro-vided with beveled edges, substantially as and for purposes de-scribed. 2nd. A barrel hoop having a lengthwise cut or cuts, for the purpose of increasing its flexibility transversely, said cut or cuts being made terminate at a certain distance from the ends of the hoop, substantially as set forth. 3rd. A barrel hoop composed of two or more sections separated by lengthwise cuts, and connected to one another near the ends of the hoop and also at a point inter-mediate of said ends, substantially as set forth. 4th. A barrel hoop having its inner and outer wails flaring and parallel to one another, and provided with a lengthwise cut or cuts for the purpose of in-creasing the flexibility transversely, substantially as set forth.

No. 27,350. Paper Bag Holder. (Porte-sac de papier.) Marshall R. Wynn, Toronto, Ont., 6th August, 1887: 5 years. Claim.—1st. A paper bag holder hooked in position, and composed of a shouldered pin with a detachable handle, the sharpened end of said pin which carries the paper bags being adapted to be placed in a hole formed on the inward side of the leg of a bracket, and the squared shouldered end of said pin when detached from the handle being passed through a slot formed in the other leg of the bracket, and through a hole formed near the free end of a spring covering said slot, substantially as described and for the parpose specified. 2nd. A metal bracket B having eye C to receive a hook which holds it in position, and having hole h and slot b formed in the legs of said bracket, in combination with a shoulder pin A, which carries the paper bags, spring D secured to said spring, to receive and keep in position the squared end g of the shouldered pin A, substantially as specified. 3rd. A metal bracket B adapted to be held suitably in position and to receive in a hole h, and slot b formed in the bags thereof, a shouldered pin A having a handle detachable, after piere ing the bags with said pin, and held in position by a spring D having a hole formed near the free end thereof to receive and keep in posi-tion the squared end g of the shouldered pin A, substantially as specified.

No. 27,351. Sheaf Carrier and Bundle Dropper. (Porte-javelle à bascule.)

Adam H. Bell, Hillsborough, Ill., U.S., 6th August, 1887; 5 years.

per. (Porte-javelle à bascule.)
Adam H. Bell, Hillsborough, Ill., U.S., 6th August, 1887; 5 years.
Claim.—Ist. The combination, with a harvester, of a sheaf carrier having a direct tilt in a vertical direction, and at the same time therewith a forward movement on an arc of a circle, as set forth.
2nd. The combination, with a harvester, of a sheaf carrier privatally connected therewith, and having its line of axis above the bottom of said carrier, whereby the said carrier moves downward and forward in discharging its load. 4th. The combination, with a harvester, of a sheaf carrier privatally connected therewith, and having its line of axis above the bottom of said carrier, whereby the said carrier moves downward and forward movement on an arc of a circle, as set forth.
String mechanism, of a sheaf carrier having its line of axis above the bottom thereof, but away from the centre of gravity of both carrier and trip mechanism, and said carrier also having an automatic direct tilt in a vertical direction at the same time with a forward movement on an arc of a circle, and an automatic return to its normal position, as set forth. 5th. The combination, with a harvester, of a sheaf carrier and a sliding suspension rod connecting the carrier and harvester frame, as set forth. 7th. The combination, with a harvester, of a sheaf carrier, a sliding suspension rod connecting the sarrier and harvester frame, and a sliding suspension rod connecting the sarrier and harvester frame, and a sliding suspension rod connecting the sarrier and harvester frame, and a sild contine provided with a slot that a protal eye bolt, as liding suspension rod connected at one end to the harvester frame, and having its other end hooked to the eye plot, and supporting arm pivotally connected at one end to the harvester frame, and having its other end hooked to the eye plot, and supporting arm pivotally connected at one end to the harvester frame, and havester, of a sheaf carrier provided with a slot that comesion the

No. 27.352. Boiler. (Chaudiére.)

William C. North, Cleveland, Ohio, U. S., 6th August, 1887; 5 years.

Claim.—A boiler having a convex upper surface, a series of up-ward projections thereon, a central opening allowing the heated currents to pass latterally under the article being cooked, substan-tially as described.

No. 27,353. Apparatus for Tilting Casks.

(Appareil à reuverser les tonneaux.)

James Hill, Melbourne, Victoria, 6th August, 1887; 5 years.

James Hill, Melbourne, Victoria, bin August, 1867; 5 years. Claim.-Ist. The combination of a cylindrical casing containing a spiral or coiled spring, with a rod having a cap at its top to press on such spring, and a screw-coupled suspension bar connected to it below such bar having a hook on its lower end for attachment to the cask, substantially as here in described and explained and as illustrat-ed in my drawings. 2nd. The combination of the hooked upper end of the spring casing, with either the T or the H section metal support-ing bars, secured and arranged substantially as here in described and explained and as illustrated in my drawings. 3rd. The combination of the sprewed suspension bar, having either a crank or a lever handle at its centre, with the hook below, and the spring and its casing above, substantially as here in described and explained and as illustrated in my drawings. illustrated in my drawings.