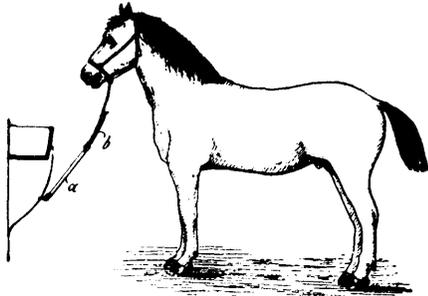


provided with a series of rollers, a screen mounted on said clearer frame to sweep against the rollers thereof, and means for actuating screen, substantially as described. 9th. In a fanning mill, the combination with a primary shoe and a blast fan, of a clearer frame pivoted to one end below the blast fan, and having its other end adjustably attached to the main frame or casing, a series of rollers mounted in said clearer frame, a screen or riddle seated on the clearer frame to sweep over the rollers therein and to partake of the adjustment of said clearer frame and means for vibrating the screen or riddle independently of any adjustment of the clearer frame, substantially as described. 10th. In a fanning mill, the combination with a primary shoe and a blast fan, of a relatively fixed frame, a vibrating screen or riddle, and a delivery spout connected with said screen or riddle to vibrate or play therewith, substantially as and for the purpose described. 11th. In a fanning mill, the combination with a primary shoe and a blast fan, of a clearer frame, a vibrating screen or riddle seated thereon, a delivery spout in alignment with said vibrating screen and supported by loose rollers or journals, and a coupling between the delivery spout and the screen or riddle, substantially as and for the purpose described. 12th. In a fanning mill, the combination with the main frame or casing, a shoe and a vibrating screen or riddle, of an elevator casing having its foot arranged adjacent to said screen or riddle, a delivery spout between the foot of the elevator casing and a screen or riddle and operatively connected with the latter to vibrate therewith, an elevator within said casing, a driving shaft, and connections between one elevator shaft and driving shaft, substantially as for the purpose described. 13. In a fanning mill, the combination with a crank shaft, of an upper screen or riddle, a lower screen or riddle, a primary shoe and a vertical rock shaft connected with said crank shaft and having independent connections with the riddles and the primary shoe, substantially as and for the purpose described. 14th. In a fanning mill, the combination with an upper screen or riddle a primary shoe, and a lower screen or riddle, of a crank shaft, horizontal rock shaft adjacent to the upper and lower screens or riddles, connections between each horizontal shaft, the vertical rock shaft, and one of said screens or riddles, and an independent connection between the vertical rock shaft and the primary shoe, substantially as described.

**No. 60,145. Halter Coupler. (Joint de licou.)**



Carl Schmah, Ahrensböck, No. 173 Furstentum, Lübeck, German Empire, 26th May, 1898; 6 years. (Filed 14th May, 1898.)

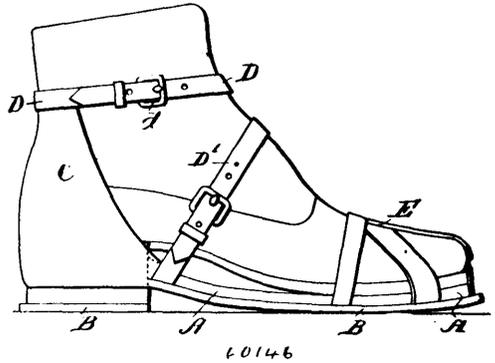
*Claim.*—1st. An uncoupling contrivance for animals, interposed between the halter and the manger, consisting of a rod formed in two parts *c, d* held together by joints, which rod is provided at its ends with hooks *e, f*, the pivoted locking noses which *g, i* can be secured in a locked position by the rods *c, d* and the movable rings *h, k*, constructed and arranged substantially as hereinbefore described. 2nd. In an uncoupling contrivance for animals, interposed between the halter and the manger, the arrangement of the rods *l, n, o* actuating the locking ring *k*, the rod *o* being connected to the rod *c* by means of a spring, so that on the breaking through of the rod *c, d* at the joint *r*, the ring *k* is drawn down from the locked nose *i*, whereby the hoof *f* is opened and the halter released, constructed and arranged substantially as hereinbefore described.

**No. 60,146. Ice Boot. (Chaussure à glace.)**

Henry William North, 33 Groydir Street, Cambridge, England, 26th May, 1898; 6 years. (Filed 31st March, 1898.)

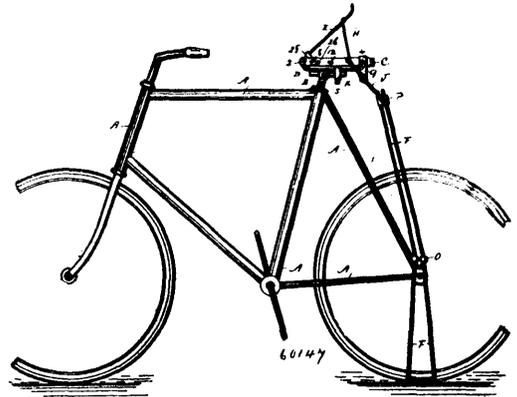
*Claim.*—1st. An improved device for use with boots and shoes, consisting of a detachable sole or sandal fitted to the boot by straps and a layer of rough wool-felt or the like on the underside of the said sole, substantially as described and for the purposes specified. 2nd. An improved ice grip device for use with boots and shoes consisting of a detachable sole, straps for the ankle and instep, a toe

piece fitting over the boot and a covering of rough wool-felt or the like on the lower side of the sole extending beyond the edge of said



sole, substantially as and for the purposes specified. 3rd. An improved ice grip device for boots and shoes, consisting of a sandal arrangement fitted detachably to the boot, and provided with a covering of rough wool-felt and the like, substantially as described and shown in the accompanying drawings, and for the purposes specified.

**No. 60,147. Bicycle Support and Lock. (Support et serrure de bicyclet.)**



William Wholton, Hamilton, Ontario, Canada, 26th May, 1898; 6 years. (Filed 30th March, 1898.)

*Claim.*—1st. A locked steadying attachment for bicycles of the character described comprising side rods, connected to the bicycle frame bearing of rear ground wheel by means of arms, a lock-casing secured to the saddle bar and capable of horizontal adjustment by means of a clip connected to said bar and to horizontal and parallel bars underneath and secured to said casing, two upper shanks pivoted to forward part of said casing to receive the forward extended fork ends of the saddle support, side rods connected to said support and to the forward shorter end of the double side levers pivoted to the lower extended straps of the casing, rear ends of said double levers pivoted to the upper ends of the bicycle steadying side rods, which are capable of being raised from the ground when the saddle support is unlocked and brought to riding position, as described. 2nd. A locked steadying attachment for bicycles of the character described comprising side rods extended at the bottom and extended at lower rear end of frame by means of pivotal arms and the upper contracted ends pivoted to double side levers which are pivoted to side strap of a lock-casing secured to the saddle bar of the bicycle, horizontal bars located under said casing and secured thereto, for attachment to the saddle bar by means of a clip to afford horizontal adjustment to the lock casing, a saddle supporting frame pivoted to forward end of lock casing by means of raised shanks admitting the fork end of said supporting frame provided with side rods to connect with the forward ends of the said double side levers and a lock controlling device in said casing operated by a key to secure the saddle support in a raised position, hence the side steadying rods in a lowered position, as described. 3rd. A lock casing provided with lower horizontal parallel bars having upper turned ends secured to ferruled cross bars of said casing, forward pivotal upper shanks to receive the extended fork ends of the saddle support, an enlarged central part of said pivot having recess for forward end of the bolt to enter and lock the same by means of the spiral spring on the rear shank of the bolt, to press against the shoulder thereof, thus retaining the saddle support in its upper inclined position, hence the connected steadying side rods in their lowered position to hold the bicycle upright, as described. 4th. A lock casing provided with