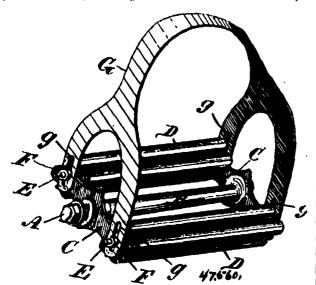
lifted by the foot on the up-stroke, as set forth. 2nd. A bicycle pedel attachment, consisting of a bent or curved bar or strap G



bifurcated at one or both ends, said end or ends slotted and adjustably secured to one or both ends of the pedal, as set forth.

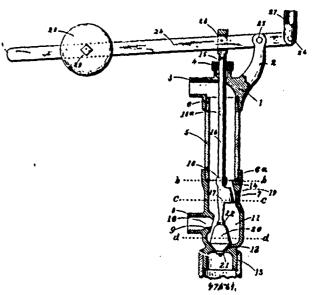
No. 47,561. Anti-freezing Valve.

(Soupape anti-congélateur.)

John Henry Casler and Charles Richmond Hastings, both of Buffalo, New York, U.S.A., 28th November, 1894; 6 years.

Claim.—1st. In an anti-freezing valve, the combination, with an imper and lower valve case, of a valve stem extending up through the top valve case and provided with a weighted bar extending lower through its top end and having one end pivoted to an arm on the upper case and its opposite end provided with a weight, a valve seat position below the valve and an inclined side valve seat in the lower case, a substantially conical valve attached to the lower end of the valve stem located in the valve chamber, an inclined faced lug on the grains valve stem, and a corresponding inclined faced projection on the forth.

valve case, substantially as and for the purposes described. 2nd. In an anti-freezing valve, a valve stem, an inclined faced ing located on the valve stem, a valve at its lower end, and means at its upper end for operating it, in combination with a valve case having



a correspondingly inclined faced projection against which the inclined face of the lug on the valve stem operates, and an enlarged chumber for the valve to operate in, a lower valve seat adapted to receive the bottom of the valve and an inclined side valve seat adapted to receive the side of the valve, both in the lower valve case, substantially as described. 3rd. In an anti-freezing valve, the combination, with a valve holding case having an outlet opening near the top, of a valve stem extending up through the top of said case and provided at its lower end with a valve, a side valve seat in the lower end of the holding case connected with the waste nozzle adapted to be closed by the side of said valve while in its upward position, a valve seat below the valve connected with the inlet and adapted to be closed by the bottom of said valve, and means substantially as above described for forcing the side of said valve against the side valve-seat during its upward position as above set forth.