ous and destructive ferments in the manufacture of syrups, sugar, or alcohol, which consists in subjecting a wort of amylaceous substances to the action of diastase and hydrofluoric acid, and subsequently adding yeast treated with hydrofluoric acid, substantially as herein set forth. 4th. In manufacturing diastase, the process of preventing the development of injurious ferment, which consists in making an infusion of malt, adding thereto hydrofluoric acid in about the proportions stated, and finally separating the dregs from the solution of diastase. 5th. The process of saccharifying amylaceous substances at a low temperature from 20° to 30° centigrade by means of an infusion of malt treated with hydrofluoric acid, substantially as and for the purposes set forth. 6th. In the process of saccharification or fermentation of amylaceous matter, the addition of the fluorine compounds herein specified to the material operated upon, instead of hydrofluoric acid, substantially as and for the purposes described. 7th. The use of hydrofluoric acid or the saline compounds of fluor for the preparation of natural or compressed yeast or barm. 8th. The employment of the acid or the compounds mentioned above in the germination of the grain with a view to its subsequent use in breweries or distilleries. 9th. The employment of hydrofluoric acid or saline compounds of fluor in breweries for the purpose of rendering fermentation uniform and of preventing injurious fermentation. ous and destructive ferments in the manufacture of syrups, sugar,

No. 37,543. Churn. (Baratte.)

Dennis O'Neill, Barrie, Ontario, Canada, 6th October, 1891; 5 years.

-1st. In a wooden churn or receptacle, the combination of sides, ends, bottom and top, with cover therein, having a corrugated metallic false bottom laying on inside bottom, knob to remove cover, plug to draw off contents therefrom, buttons to fasten said cover, handles to oscillate said receptacle, having longitudinal rockers with nameles to oscitlate said receptacie, saving tongitudinal rockers with mortises supporting logs, extending up the sides of body of receptacle and projecting downward on the inside of said rockers, near the bottom having tenons to fit mortises, substantially as set forth. 2nd. In a wooden churn or receptacle, the combination as herein described, having bottom and top rails tracing and supporting said receptacle, pins or bolts to fasten legs and rockers together, having corrugated metallic movable false bottom laying on inside bottom, or for any other desired nursees substantially as set forth. or for any other desired purpose, substantially as set forth

No. 37,544. Method of Lining Vessels, Digestors, etc. (Methode de doubler les vaisseaux, digesteurs, etc.)

Charles Kellner, Vienna, Lower Austria, Empire of Austria, 6th October, 1891; 5 years.

Charles Kellner, Vienna, Lower Austria, Empire of Austria, 6th October, 1891; 5 years.

Claim.—1st. The process of making an acid-proof lining, said process consisting in cementing upon the surfaces which are intended to be lined, plates made of hard glass, substantially as and for the purpose described. 2nd. The process of making an acid-proof lining, said process consisting in cementing upon the surfaces which are intended to be lined, plates made of hard glass and provided with roughened surfaces, substantially as and for the purpose described. 3rd. The process of making an acid-proof glass lining, said process consisting in cementing upon the surfaces which are to be lined, glass plates having a rough surface, and in superposing upon the joints between the plates of a second layer of plates, and eventually of a third and fourth layer of such plates made of hard glass substantially as and for the purpose specified. 4th. The process of making an acid-proof glass lining, said process consisting in cementing upon the surfaces which are to be lined, hard glass plates by means of a compound being thoroughly mixed with a solution of soluble silicates (soluble glass) into a thick pulp, substantially as described. 5th. The process of making an acid-proof glass lining, said process consisting in cementing upon the surfaces which are to be lined, hard glass plates by means of a compound composed of glass powder, and chalk, said empound being thoroughly mixed with a solution of soluble silicates (soluble glass) into a thick pulp, substantially as described. 6th. The process of making an acid-proof glass lining, said process consisting in cementing upon the surfaces which are to be lined, hard glass plates by means of a compound composed of glass powder, quartz powder, brick powder, and chalk, said compound being thoroughly mixed with a solution of soluble silicates (soluble glass) into a thick pulp, substantially as described. 8th. The process of making an acid-proof glass lining, said process consisting in cementing u

No. 37.545. Mowing Machine. (Faucheuse.)

John Fletcher Steward, Chicago, Illinois, U.S.A., 6th October, 1891; 5 years.