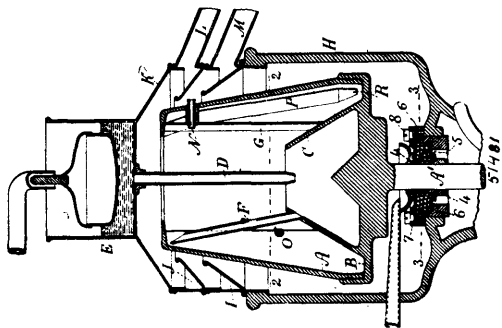


**No. 51,481. Centrifugal Separator for Cream, Etc.**  
(*Séparateur centrifuge pour la crème, etc.*)



Thomas Collins and Ernest Louis Hartmann, both of Bainbridge, New York, U.S.A., 26th February, 1896; 6 years. (Filed 4th February, 1896.)

*Claim.*—1st. The combination in a centrifugal separator, of a main bowl contracted at its upper end, a receiving cup within the bottom

of such separator bowl and a pipe passing from the cup to the interior of the separator bowl near its upper end, a cream discharge and a skim milk pipe passing from the interior of the bowl near its larger diameter to the top surface of the bowl where the skim milk is delivered, substantially as set forth. 2nd. The combination in a cream separator, of a centrifugal bowl, a cream trough having edges parallel with the axis of rotation, and a discharge pipe from such cream trough, substantially as set forth. 3rd. The combination in a cream separator, of a centrifugal bowl, a cream trough having edges parallel with the axis of rotation, and a discharge pipe from such cream trough, there being an adjustable screw-threaded tube within the discharge pipe, substantially as set forth. 4th. The combination, with the centrifugal separating bowl, of a receiving cup within and at the bottom of the same, a pipe passing upwardly from the receiving cup and opening within the separator bowl, a skim milk pipe passing from the larger diameter of the separator bowl to the place of delivery, a cream discharge trough with its edges parallel to the axis of rotation, a lateral discharge pipe from the same and pans for receiving the skim milk and cream respectively, substantially as set forth. 5th. The combination, with the separator and its shaft, of a bushing having an oil cup, a ring block of woolen fibre surrounding the bushing, and a cup supported by the case that surrounds the separator and receives the ring block, and a clamping ring and screws for holding the fibrous ring block in position, substantially as set forth.