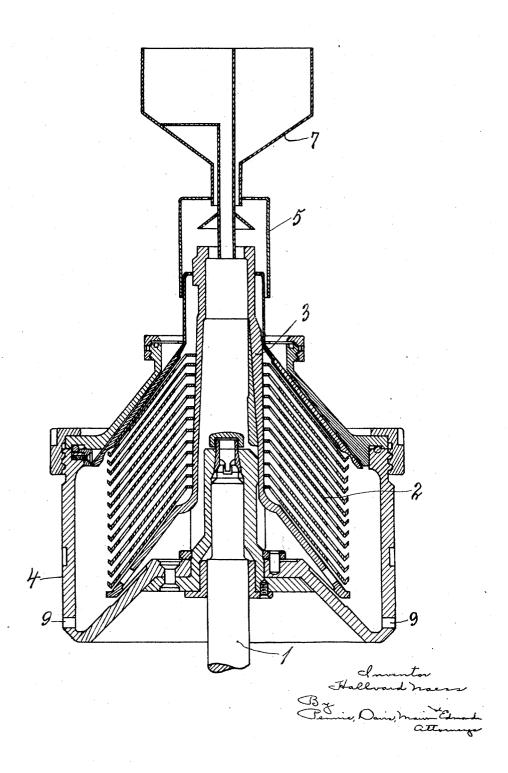
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H. NÆSS

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CENTRIFUGAL SEPARATOR
Filed Feb. 20, 1928



UNITED STATES PATENT OFFICE

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CENTRIFUGAL SEPARATOR

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for the cleaning of the plate set and distributing cross of centrifugal separators without having to take these parts out of the

5 bowl body of the separator.

this purpose a device for supplying the cleaning medium in known manner centrally in relation to the distributing cross, with openings (slots, perforations or the like) in the bowl body of the separator for the exit of the impurities and arranged to be closed at will, in order to make the apparatus act alternately as a centrifugal separator and a stationary bowl-body and a rotatably mountcleaning apparatus. In order to effect a ed distributing cross and plate set, means for
cleaning it is only necessary to uncover the directing a flow of cleaning medium axially said slots, and put the device for supplying same pass through the apparatus until a com-20 plete cleaning has been effected.

1 is the rotating spindle of the separator, 25 2 the plate set held in place in the bowl 4 of the separator by aid of the usual distributing cross 3. The cylindric part (wall) of this bowl is, contrary to the solid walls of ordinary bowl bodies, perforated by slots 9,

30 holes or the like.

The cleaning medium, is supplied to the plate set by the same path as that by which the separation operation (at the inner edges of the plates). The cleaning medium is supplied either by means of a special top piece 5 placed on the top of the plate set and so and through the inner holes of the plates flows in between the plates, or the ordinary top piece (upper plate with neck) is retained. name to this specification. The cleaning medium is introduced into the neck of the top piece by means of a hopper 7, pipe or the like. This supply may be so arranged that alternately or simultaneously the cleaning medium may be supplied to the interior or/and exterior of the distributing

For cleaning the separator the separator is

My invention relates to an arrangement put in rotation and the cleaning medium is flung out against the bowl body between the plates and cleans the same from within outwardly. On account of the perforations of the bowl body being uncovered the clean- 55 According to my invention I combine for ing medium and all impurities are flung out through these perforations.

> The cleaning medium may be in a liquid or a gaseous state, and if desired a special drying medium may be used after the clean- 60

ing is accomplished.

Claims:

1. In a centrifugal separator having a ed distributing cross and plate set, means for 65 to the plate set and distributing cross and the cleaning medium in action, letting the radially outward therethrough into the bowlbody, said bowl-body having a plurality of plete cleaning has been effected.

In the accompanying drawings is shown a sectional view of a centrifugal separator in accordance with my invention.

South to detail the distribution outlet openings therein to permit the distribution outlet openings therein to permit the distribution outlet openings therein to permit the distribution of said cleaning medium, and means for closing said openings, whereby said separator may be operated at will as a cleaning device or a separator and said plate set and distributing cross cleaned without re- 75 moving them from the bowl-body.

2. In a centrifugal separator having a stationary bowl-body and a rotatably mounted distributing cross and plate set, means for directing a flow of cleaning medium so axially to the plate set and distributing cross and radially outward therethrough into the the lightest liquid leaves the plate set during bowl-body, said bowl-body having a plurality of outlet openings in the side wall thereof to permit the discharge of said cleaning me- 85 dium, and means for closing said openings, whereby said separator may be operated at constructed that the cleaning medium will as a cleaning device or a separator and through the channels of the distributing cross said plate set and distributing cross cleaned will as a cleaning device or a separator and without removing them from the bowl-body. 90

In testimony whereof I have signed my

HALLVARD NÆSS.

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