

Title (en)

Method of disposing with lye leaving cleaning machines.

Title (de)

Verfahren zum Entsorgen von Lauge aus Reinigungsmaschinen.

Title (fr)

Procédé d'épuration de la lessive provenant de machines de nettoyage.

Publication

**EP 0264596 A1 19880427 (DE)**

Application

**EP 87112794 A 19870902**

Priority

DE 3633652 A 19861003

Abstract (en)

1. Process for disposal of caustic solution from cleaning machines, in particular bottle cleaning machines (11, 12, 13, 14), by draining the caustic solution intermittently into associated settling tanks (21, 22, 23, 24), settling of the suspended solids taking place after several hours so that about 90% of the sediment is precipitated from the caustic solution after which the caustic solution cleaned to a very large extent is returned to the cleaning machines, while the highly alkaline sludge left as a residue is further treated, characterized in that the sludge and part of the caustic solution remaining in the settling tank (21, 22, 23, 24) are drawn off and passed to a sludge thickening system (30) in which the sludge is further concentrated, that the clarified clean caustic solution accumulating in the upper part of the thickening tower (31) is continuously drawn off and after intermediate storage in a clean caustic solution tank (32) led to a settling tank (21, 22, 23, 24) or a manipulation tank (27), that the sludge accumulating in the sludge thickening tower (31) is passed through a downstream flocculant station (39) in which a flocculant is added to the sludge, and that the sludge is subsequently dewatered in a screening container (37, 40).

Abstract (de)

Mit der angegebenen Reinigungsanlage können die Standzeiten der Lauge durch das Vertauscherprinzip der Laugen untereinander verlängert werden. Durch die Isolierung der Sedimentationstanks sind die Temperaturverluste der einzelnen Laugenbäder gering. Als ein wesentlicher Vorteil der angegebenen Reinigungsanlage ist die umweltschonende Entsorgung der bei der Sedimentation anfallenden Schmutzstoffe zu erwähnen, mit dem Effekt, daß durch die Reinigung der Laugen in der Eindickanlage nur noch sehr geringe Laugenverluste auftreten und nicht wie in herkömmlichen Reinigungsanlagen täglich die vollständigen Sedimentmengen verworfen werden müssen.

IPC 1-7

**B67C 1/00**

IPC 8 full level

**B08B 3/14** (2006.01); **B08B 9/20** (2006.01)

CPC (source: EP)

**B08B 3/14** (2013.01); **B08B 9/20** (2013.01)

Citation (search report)

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