

Title (en)

A dishwasher incorporating combination drain pump and grinding apparatus.

Title (de)

Spülmaschine mit Kombination von Entleerungspumpe und Zerkleinerungsvorrichtung.

Title (fr)

Machine à laver la vaisselle comportant une unité combinant pompe de vidange et broyeur.

Publication

EP 0079752 A1 19830525 (EN)

Application

EP 82305972 A 19821109

Priority

- US 31983181 A 19811109
- US 38706782 A 19820610

Abstract (en)

A combination drain pump/disposer is used with a vessel such as a dishwasher and includes a housing (120) defining a pump chamber (126), an inlet (70) above the housing which communicates with the vessel, a pump outlet (131) extending through a side wall (128) of the chamber and communicating with a drain line, and a waste impeller (138) positioned within the chamber. The impeller (138) includes a disk-shaped base (139) substantially parallel to and spaced slightly above the floor (129) of the chamber, a plurality of soil-sizing holes (152), an upstanding rim (141) extending about a periphery of the base and including an inner wall (143) defining a plurality of radially-extending, substantially vertical pumping vanes (150,151), and at least one breaker tooth (153) extending upwardly from the base and positioned inwardly of the rim. The housing includes a cover plate (157) having an opening concentric with the impeller and at least one stationary tooth (161) providing a vertical cutting edge (162,163) extending downwardly adjacent the inner wall such that rotation of the impeller causes the cutting edges and breaker tooth to pass by the stationary tooth to perform a shearing and cutting function.

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IPC 8 full level

A47L 15/42 (2006.01)

CPC (source: EP)

A47L 15/4225 (2013.01); **A47L 15/4227** (2013.01)

Citation (search report)

- [A] DE 1144447 B 19630228 - HERMANN ZANKER K G
- [A] DE 1628609 B2 19751023
- [A] US 3079094 A 19630226 - BREZOSKY BERNARD J, et al
- [A] US 4150680 A 19790424 - DINGLER GEOFFREY L [US], et al
- [A] US 4228962 A 19801021 - DINGLER GEOFFREY L, et al
- [AP] US 4319599 A 19820316 - DINGLER GEOFFREY L, et al
- [AD] US 2959179 A 19601108 - SASNETT RUSSELL M, et al
- [AD] US 3080874 A 19630312 - BRUCKEN BYRON L
- [AD] US 3370598 A 19680227 - LOPP CHARLES R, et al

Cited by

DE10346675A1; EP0454640A1; US8557047B2; WO2006001624A1; US8382914B2

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