

Title (en)
DISHWASHING MACHINE

Title (de)
GESCHIRRSPÜLMASCHINE

Title (fr)
LAVE-VAISSELLE

Publication
EP 3366185 A1 20180829 (EN)

Application
EP 17158124 A 20170227

Priority
EP 17158124 A 20170227

Abstract (en)
Dishwashing machine (1) comprising: an outer casing (2) which is provided with a pass-through tunnel (3) extending substantially horizontally within the same casing (2) and having a washing section (8) and a rinsing section (9) located one downstream the other; and a linear conveyor (4) adapted to advance a succession of dishwasher racks (100) along the pass-through tunnel (3); inside the washing section (8), the dishwashing machine (1) comprising: a first catchment sink (10) which is arranged on the bottom of the tunnel (3) so as to collect and accumulate the washing liquid trickling down from the dishwasher rack (100) momentarily traveling inside the washing section (8); a number of washing nozzles (11) which are arranged above the catchment sink (10) and are oriented so as to direct jets of washing liquid towards the dishwasher rack (100) momentarily traveling inside the washing section (8); and a washing-liquid feed line (12) adapted to feed the washing liquid accumulated into the first catchment sink (10) towards the washing nozzles (11); inside the rinsing section (9), the dishwashing machine (1) comprising: a second (22) and a third (23) catchment sinks which are arranged on the bottom of the tunnel (3) one downstream the other, so as to separately collect and accumulate the washing liquid trickling down from the dishwasher rack (100) momentarily traveling above said second (22) and third (23) catchment sinks, and wherein the second catchment sink (22) is connected to the third catchment sink (23) via an overflow assembly (50) structured to automatically channel, from third catchment sink (23) to second catchment sink (22), the rinsing liquid contained into the third catchment sink (23) and exceeding a given threshold level; a number of final rinsing nozzles (24) which are arranged above the third catchment sink (23) and are oriented so as to direct corresponding jets of rinsing liquid towards the dishwasher rack (100) momentarily traveling inside the rinsing section (9), above the third catchment sink (23); a first rinsing-liquid feed line (25) adapted to feed the rinsing liquid towards the final rinsing nozzles (24); a number of pre-rinsing nozzles (58) which are arranged above the second catchment sink (22) and are oriented so as to direct corresponding jets of rinsing liquid towards the dishwasher rack (100) momentarily travelling inside the rinsing section (9), above the second catchment sink (22); and a second rinsing-liquid feed line (59) which is adapted to feed the rinsing liquid accumulated into the second catchment sink (22) towards the pre-rinsing nozzles (58) and also towards the third catchment sink (23).

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Citation (search report)
• [A] EP 2772178 A1 20140903 - COMENDA ALI S P A [IT]
• [A] DE 4100164 C1 19920430
• [A] EP 2510863 A1 20121017 - WEIGERT CHEM FAB [DE]

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