

Title (en)
Programme switching device.

Title (de)
Programmschaltseinrichtung.

Title (fr)
Dispositif commutateur à programme.

Publication
EP 0133219 A1 19850220 (DE)

Application
EP 84107911 A 19840706

Priority
DE 3326402 A 19830722

Abstract (en)

1. Programme switching device, more particularly for household machines, having a programme cam drum (1) and a timer cam drum (2), both of which have inner teeth (9 or 10) ; having a stepping mechanism comprising a rocker (22) which is driven by a driving motor by way of an eccentric (20) and in which first spring-loaded plungers (16, 17) are guided, which plungers cooperate with the inner teeth (10) of the timer cam drum (2) normally covering the inner teeth (9) of the programme cam drum (1) and, with corresponding control slots (32) in the inner teeth (10) - projecting through said control slots (32) - come into engagement with the inner teeth (9) of the programme cam drum (1), characterised in that arranged inside the programme cam drum (1) there is a time extension ring (3) which is likewise provided with inner teeth (11, 12) and at least one control slot (33) and with which there is associated at least one further spring-loaded plunger (19) which is guided in the rocker (22) and cooperates with the inner teeth (11) of the time extension ring (3) and with the inner teeth (9) of the programme cam drum (1) in a manner corresponding to that of the first plungers (16, 17) for the timer cam drum (2) and programme cam drum (1), in that the plunger-driven time extension ring (3) is provided further with a resetting spring (29) acting on a housing projection (31) and also with a reverse blocking lever (25) for the time extension ring (3) and in that this blocking lever (25) is effective in dependence on the presence or non- presence in its area of engagement of additional teeth (27) of the programme cam drum (1) associated with said lever, such that no resetting of the time extension ring (3) takes place when additional teeth (27) are present, yet resetting does take place when the additional teeth (27) of the programme cam drum (1) are not present and when the blocking lever (25) lifts out of these teeth (27) when programme cam drum (1) moves further.

Abstract (de)

Die Erfindung bezieht sich auf eine Programmschaltseinrichtung, insbesondere für Wasch- oder Geschirrspülautomaten. Diese Programmschaltseinrichtung besitzt eine Programmnockentrommel (1), ein Zeitgebernockenrad (2) sowie einen Zeitdehnungsring (3), die von einem Antriebsmotor über ein Schittschaltwerk angetrieben werden, dessen Transportorgane in unterschiedliche Verzahnungen eingreifen. Der Zeitdehnungsring (3) ist hier entgegen der Transportrichtung federelastisch mit gehäusefesten Teilen verbunden, so daß der Zeitdehnungsring nach Ablauf der Zeitdehnung umgehend in die Ausgangsstellung zurückgezogen wird. Hierzu wird vorzugsweise eine Rückdreh Sperre (25) für den Zeitdehnungsring (3) verwendet, dessen schrittweise Sperrfunktion durch Verzahnungsbildung (12, 27) in der Programmnockentrommel aufhebbar ist.

IPC 1-7
H01H 43/10

IPC 8 full level
H01H 43/10 (2006.01)

CPC (source: EP)
H01H 43/102 (2013.01)

Citation (search report)

- [A] FR 2446008 A1 19800801 - CROUZET SA
- [A] DE 1805594 A1 19690703 - CANDY S P A FA
- [A] GB 1194208 A 19700610 - CROUZET SA [FR]
- [A] FR 2162073 A1 19730713 - SIEMENS AG
- [A] GB 1196012 A 19700624 - CROUZET SA [FR]

Cited by
EP0323343A1; FR2625232A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
EP 0133219 A1 19850220; EP 0133219 B1 19881214; DE 3326402 A1 19850131; DE 3475672 D1 19890119; DE 8321107 U1 19860206

DOCDB simple family (application)
EP 84107911 A 19840706; DE 3326402 A 19830722; DE 3475672 T 19840706; DE 8321107 U 19830722