

Title (en)

Method and apparatus for operating a heat source in a reproduction machine.

Title (de)

Verfahren und Vorrichtung zum Betrieb einer Heizquelle in einem Kopiergerät.

Title (fr)

Procédé et appareil pour actionner une source de chaleur dans une machine à copier.

Publication

**EP 0006553 A1 19800109 (EN)**

Application

**EP 79101972 A 19790615**

Priority

US 92165978 A 19780703

Abstract (en)

Method and apparatus for operating and regulating a heat source (103) in a reproduction machine, particularly for a fuser in a copier. The machine is operable in at least 3 modes, a warm-up, a stand-by, and a copy mode. The amount of energy supplied to the heat source (103) depends on the present mode of the machine and the actual temperature T of the fuser: The supplied power is at level P1 during the warm-up mode until  $T \geq T_1$  ( $T_1$  is a given temperature). Then, power is reduced to P2. In stand-by mode, power is increased to  $P_2 + \Delta P_1$ , if  $T < T_2$  ( $T_2$  is a given operating temperature), and decreased to  $P_2 - \Delta P_1$ , if  $T \geq T_2$ . In the copy mode, power is increased to  $P_2 + \Delta P_2$  if  $T \leq T_2$  and increased to  $P_2 + \Delta P_3$  if  $T > T_2$ .

IPC 1-7

**G03G 13/20**; **G03G 15/20**

IPC 8 full level

**G03G 21/14** (2006.01); **G03G 15/20** (2006.01)

CPC (source: EP US)

**G03G 15/2003** (2013.01 - EP US)

Citation (search report)

- DE 2720537 A1 19771110 - SHARP KK
- US 4144835 A 19790320 - FUKASE YASUJI, et al
- US 3878358 A 19750415 - BARTON EDWARD D, et al
- US 3532855 A 19701006 - CLEAVE GEORGE W VAN
- DE 2717265 A1 19771110 - CANON KK
- DE 1497119 B1 19710812 - ADDRESSOGRAPH MULTIGRAPH
- IBM TECHNICAL DISCLOSURE BULLETIN, Vol. 21, Nr. 2, July 1978 G.J. HOWARD et al. "Copier Fuser Controls" pages 481 to 482.

Cited by

EP0085950A1; EP0658246A4; AU597528B2; EP0159570A1; EP0053438A3; US5972659A; EP0511685A1; EP0264968A3; US6040558A; EP0193914A3; EP0878749A3; EP0030372B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0006553 A1 19800109**; JP S559593 A 19800123; US T100804 I4 19810707

DOCDB simple family (application)

**EP 79101972 A 19790615**; JP 8026079 A 19790627; US 11026280 A 19800107