

Title (en)
ION FLOW MODULATOR

Publication
EP 0156622 A3 19851113 (EN)

Application
EP 85301919 A 19850319

Priority
• JP 5503884 A 19840322
• JP 6270284 A 19840330

Abstract (en)
[origin: EP0156622A2] An ion flow modulator with high reliability used in a photocopying machine to obtain a high quality image. The ion flow modulator (37) includes an insulating substrate (38). a common electrode (42) formed on one major surface of the insulating substrate (38), a plurality of ion flow control electrodes (40) formed on the other major surface of the insulating substrate (38), a photoconductive layer (46) formed on the insulating substrate (38) and connected to one end of each of the ion flow control electrodes (40), a first voltage application electrode (48) formed on the insulating substrate (38) and connected to the photoconductive layer (46), a resistance layer (50) formed on the insulating substrate (38) and connected to the other end of each of the ion flow control electrodes (40) so as to interpose the ion flow control electrodes (40) between the photoconductive layer (46) and the resistance layer (50), a second voltage application electrode (52) formed on the insulating substrate and connected to the resistance layer (50), and a DC power source (49, 54) for applying voltages having opposing polarities to the first and second voltage application electrodes (48, 52). The ion flow passage holes (44) are formed through the insulating substrate (38) and the common electrode (42). A means is provided for generating ions to pass through the ion flow passage holes.

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G03G 15/044

IPC 8 full level
G03G 15/05 (2006.01)

CPC (source: EP)
G03G 15/05 (2013.01)

Citation (search report)
• DE 2654563 A1 19780608 - BATTELLE INSTITUT E V
• US 4155093 A 19790515 - CARRISH JEFFREY J [US], et al
• DE 1522582 B2 19720406
• US 3623122 A 19711123 - FOTLAND RICHARD A

Cited by
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EP 0156622 A2 19851002; EP 0156622 A3 19851113; EP 0156622 B1 19880601; DE 3563130 D1 19880707

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