SECTION H — ELECTRICITY

H10 SEMICONDUCTOR DEVICES; ELECTRIC SOLID-STATE DEVICES NOT OTHERWISE PROVIDED FOR

H10K ORGANIC ELECTRIC SOLID-STATE DEVICES [2023.01]

Note(s) [2023.01]

- 1. This subclass <u>covers</u>:
 - individual organic electric solid-state devices, i.e. electric solid-state devices comprising organic material in the active part;
 - integrated devices, or assemblies of multiple devices, comprising such elements.
- 2. This subclass <u>does not cover</u>:
 - organic electronic memory devices, which are covered by subclass H10B;
 - organic thermoelectric devices, organic thermomagnetic devices, organic piezoelectric devices, organic electrostrictive devices, organic magnetostrictive devices, organic galvanomagnetic devices, organic Hall-effect devices, organic superconducting devices or organic solid-state devices having no potential barriers, and specially adapted for rectifying, amplifying, oscillating or switching, which are covered by subclass H10N;
 - organic resistors having no potential barriers and not specially adapted for integrated devices, which are covered by subclass H01C;
 - organic capacitors having no potential barriers and not specially adapted for integrated devices, which are covered by subclass H01G
- 3. In this subclass, the periodic system used is the I to VIII group system indicated in the Periodic Table under Note (3) of section C.
- 4. In this subclass, it is desirable to add the indexing codes of groups H10K 101/00-H10K 102/00.

ORGANIC DEVICES SPECIALLY ADAPTED FOR RECTIFYING, AMPLIFYING, OSCILLATING OR

Subclass index

Citating BE vices of Editle Printing For Recipirity, 1910, 1	-
SWITCHING	
Devices	
Integrated devices or assemblies of multiple devices	19/00
ORGANIC RADIATION-SENSITIVE DEVICES	
Devices	30/00
Integrated devices or assemblies of multiple devices	39/00
ORGANIC LIGHT-EMITTING DEVICES	
Devices	50/00
Integrated devices or assemblies of multiple devices	59/00
Integrated devices, or assemblies of multiple devices, comprising at least one organic radiation-sensitiv	e
element and at least one organic light-emitting element	
MANUFACTURE OR TREATMENT; CONSTRUCTIONAL DETAILS	
Manufacture or treatment	71/00
Constructional details	77/00
Organic active materials	85/00
SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS	
INDEXING SCHEMES	
Indexing schemes	101/00, 102/00
	•

Organic devices specially adapted for rectifying, amplifying, oscillating or switching [2023.01]

- 10/00 Organic devices specially adapted for rectifying, amplifying, oscillating or switching; Organic capacitors or resistors having potential barriers (integrated devices or assemblies of multiple devices H10K 19/00) [2023.01]
- 10/10 Organic capacitors or resistors having potential barriers [2023.01]
- 10/20 Organic diodes [2023.01]
- 10/23 • Schottky diodes [2023.01]

- 10/26 • Diodes comprising organic-organic junctions [2023.01]
- 10/29 Diodes comprising organic-inorganic heterojunctions [2023.01]
- 10/40 Organic transistors **[2023.01]**
- 10/43 • Bipolar transistors, e.g. organic bipolar junction transistors [OBJT] [2023.01]
- 10/46 Field-effect transistors, e.g. organic thin-film transistors [OTFT] (H10K 10/43 takes precedence) [2023.01]
- 10/50 Bistable switching devices [2023.01]
- 10/80 Constructional details **[2023.01]**

IPC (2025.01), Section H 1

2

10/82	• • Electrodes [2023.01]	30/84	• Layers having high charge carrier
10/84	 Ohmic electrodes, e.g. source or drain electrodes [2023.01] 	30/85	mobility [2023.01]Layers having high electron mobility, e.g.
10/86	Schottky electrodes [2023.01]		electron-transporting layers or hole-blocking
10/88	• • Passivation; Containers; Encapsulations [2023.01]	30/86	layers [2023.01] • • Layers having high hole mobility, e.g. hole-
19/00	Integrated devices, or assemblies of multiple devices, comprising at least one organic element specially	30/60	transporting layers or electron-blocking layers [2023.01]
	adapted for rectifying, amplifying, oscillating or	30/87	• • Light-trapping means [2023.01]
19/10	switching, covered by group H10K 10/00 [2023.01]comprising field-effect transistors [2023.01]	30/88	• • Passivation; Containers; Encapsulations [2023.01]
19/10	comprising field-effect transitions [2023.01] comprising components having an active region that	30/89	• • Terminals, e.g. bond pads [2023.01]
19/80	includes an inorganic semiconductor [2023.01]Interconnections, e.g. terminals [2023.01]	39/00	Integrated devices, or assemblies of multiple devices, comprising at least one organic radiation-sensitive element covered by group H10K 30/00 [2023.01]
Organic	radiation-sensitive devices [2023.01]		Note(s) [2023.01]
_			This group only covers devices that are sensitive to
30/00	Organic devices sensitive to infrared radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation (integrated devices or		infrared radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation.
	assemblies of multiple devices H10K 39/00, H10K 65/00; electrolytic light-sensitive devices	20./10	
	H01G 9/20) [2023.01]	39/10	 Organic photovoltaic [PV] modules; Arrays of single organic PV cells [2023.01]
	Note(s) [2023.01]	39/12	• Electrical configurations of PV cells, e.g. series connections or parallel connections [2023.01]
	This group <u>covers</u> organic semiconductor devices sensitive to radiation insofar as these devices are	39/15	comprising both organic PV cells and inorganic PV cells [2023.01]
	specially adapted for either: the conversion of the radiation energy into	39/18	• • Interconnections, e.g. terminals [2023.01]
	electrical energy; or	39/30	Devices controlled by radiation [2023.01]
	 the control of electrical energy by such radiation. 	39/32	Organic image sensors [2023.01] integrated with organic light emitting diades.
30/10	 comprising heterojunctions between organic 	39/34	• • integrated with organic light-emitting diodes [OLED] [2023.01]
	semiconductors and inorganic semiconductors [2023.01]	39/36	 Devices specially adapted for detecting X-ray radiation [2023.01]
30/15	 Sensitised wide-bandgap semiconductor devices, e.g. dye-sensitised TiO₂ (photo-electrochemical devices comprising a liquid electrolyte or a solid 	39/38	• • Interconnections, e.g. terminals [2023.01]
	electrolyte H01G 9/20) [2023.01]	<u>Organic l</u>	light-emitting devices [2023.01]
30/20	• comprising organic-organic junctions, e.g. donor-	50/00	Organic light-emitting devices (integrated devices or
30/30	acceptor junctions [2023.01]comprising bulk heterojunctions, e.g. interpenetrating	30/00	assemblies of multiple devices H10K 59/00,
30730	networks of donor and acceptor material domains [2023.01]		H10K 65/00; organic semiconductor lasers H01S 5/36) [2023.01]
30/35	comprising inorganic nanostructures, e.g. CdSe nanoparticles [2023.01]	50/10	 OLEDs or polymer light-emitting diodes [PLED] [2023.01]
30/40	comprising a p-i-n structure, e.g. having a perovskite absorber between p-type and n-type charge transport	50/11	 characterised by the electroluminescent [EL] layers [2023.01]
	layers [2023.01]	50/115	• • • comprising active inorganic nanostructures, e.g.
30/50	• Photovoltaic [PV] devices [2023.01]	50/12	luminescent quantum dots [2023.01] • • comprising dopants [2023.01]
30/53	 in the form of fibres or tubes, e.g. photovoltaic fibres [2023.01] 	50/12	• specially adapted for multicolour light
30/57	 comprising multiple junctions, e.g. tandem PV cells [2023.01] 	50/13	emission, e.g. for emitting white light [2023.01] • • • comprising stacked EL layers within one EL
30/60	 in which radiation controls flow of current through the devices, e.g. photoresistors [2023.01] 	50/135	unit [2023.01] • • • comprising mobile ions [2023.01]
30/65	 Light-sensitive field-effect devices, e.g. 	50/14	• • Carrier transporting layers [2023.01]
	phototransistors [2023.01]	50/15	• • • Hole transporting layers [2023.01]
30/80	Constructional details [2023.01] Florence for [2023.01]	50/155	• • • comprising dopants [2023.01]
30/81	• Electrodes [2023.01]	50/16 50/165	• Electron transporting layers [2023.01]• comprising dopants [2023.01]
30/82	 • Transparent electrodes, e.g. indium tin oxide [ITO] electrodes [2023.01] 	50/103	• Carrier injection layers [2023.01]
30/83	• • • comprising arrangements for extracting the	50/18	• • Carrier blocking layers [2023.01]
	current from the cell, e.g. metal finger grid	50/19	• • Tandem OLEDs [2023.01]
	systems to reduce the serial resistance of	50/30	Organic light-emitting transistors [2023.01]
	transparent electrodes [2023.01]	50/80	Constructional details [2023.01]
		50/805	• • Electrodes [2023.01]

electrodes [2023.01] 50/826 - Multilayers [2023.01] 50/827 - Transparent cathodes, e.g. comprising thin metal layers [2023.01] 50/844 - Passivation; Containers; Encapsulations [2023.01] 50/845 - Condainers [2023.01] 50/852 - Comainers [2023.01] 50/854 - Encapsulations [2023.01] 50/852 - Comprising a resonant cavity structure, e.g. Broag reflector pair [2023.01] 50/853 - Comprising a resonant cavity structure, e.g. Broag reflector pair [2023.01] 50/854 - Comprising a resonant cavity structure, e.g. lenses [2023.01] 50/856 - Comprising reflective means [2023.01] 50/856 - Comprising reflective means [2023.01] 50/856 - Comprising reflective means [2023.01] 50/857 - Arrangements for heating or cooling [2023.01] 50/858 - Terminals, e.g. bond pads [2023.01] 50/859 - Terminals, e.g. bond pads [2023.01] 50/850 - Terminals, e.g. bond pads [2023.01] 50/851 - Terminals, e.g. bond pads [2023.01] 50/852 - Terminals, e.g. bond pads [2023.01] 50/853 - Terminals, e.g. bond pads [2023.01] 50/850 - Terminals, e.g. bon	Solitation Combined with metal lines [2023.01] Solitation Soli	50/81		
Solution	Solitable			
layer combined with motal limes [2023.01] 50/818 • Multilayers, g. transparent 50/818 • Multilayers [2023.01] 50/82 • Cachiodes [2023.01] 50/83 • Multilayers, g. opaque multilayers [2023.01] 50/84 • Passivation; Containers, Encapsulations [2023.01] 50/84 • Passivations [2023.01] 50/85 • Cachiodes [2023.01] 50/86 • Cachiodes [2023.01] 50/86 • Cachiodes [2023.01] 50/87 • Cachiodes [2023.01] 50/88 • Cachiodes [2023.01] 50/88 • Cachiodes [2023.01] 50/89 • Cachiodes [2023.01] 50/89 • Cachiodes [2023.01] 50/80 • Cachiodes [layer combined with meal lines [2023.01] Solida Sol		· · · · · · · · · · · · · · · · · · ·	
Solution	Solition	50/814		* *
multilayes [2023.01] 50/818 N. Reflective mondes, e.g. ITO combined with the metallic layers [2023.01] 50/82 C. Cathodes [2023.01] 50/82 C. Cathodes [2023.01] 50/82 C. Combined with auxiliary electrones [2023.01] 50/82 C. Combined (2023.01) 50/82 C. Cathodes [2023.01] 50/82 C. Transparent cathodes, etg. comprising thin multilayers [2023.01] 50/83 C. Transparent cathodes, etg. comprising thin multilayers [2023.01] 50/84 C. Combined value [2023.01] 50/85 C. Comprising a resonant cavity structure, e.g. Bragg reflective pair [2023.01] 50/85 C. Comprising a resonant cavity structure, e.g. lenses [2023.01] 50/86 C. Comprising reflective means [2023.01] 50/86 C. Camprising a resonant cavity structure, e.g. lenses [2023.01] 50/86 C. Camprising a resonant cavity structure, e.g. lenses [2023.01] 50/87 C. Camprising reflective means [2023.01] 50/88 C. Terminals, e.g. bond pads [2023.01] 50/89 C. Cathodes [2023.01] 50/90 C. Cathodes [2023.01] 50/91 C. Catho	multilayers [2023.01] 50/818 v. Reflective modes, e.g. ITO combined with the medile layers [2023.01] 50/82 v. Calludos [2023.01] 50/82 v. Candudos [2023.01] 50/83 v. Transparent callodes, e.g. comprising this medilayers [2023.01] 50/84 v. Passivation; Containers; Encapsulations [2024.01] 50/84 v. Passivation; Containers; Encapsulations [2023.01] 50/84 v. Candudos [2023.01] 50/85 v. Candudos [2023.01] 50/86 v. Candudos [2023.01] 50/86 v. Candudos [2023.01] 50/87 v. Candudos [2023.01] 50/88 v. Candudos [2023.01] 50/89 v. Candudos		-	
thick metallic layers [2023.01] 59/82	thick metallic layers [2023.01] 50/82	50/816		
50/82 Cathodes [2023.01] 50/824 characterised by their shape [2023.01] 50/825	50/822 - C. Canhodes [2023.01] 59/58 - Compising reductive by their shape [2023.01] 59/6824 - C. Canhonde with auxiliary [2023.01] 59/6826 - C.	50/818		
50/824 • • • combined with auxiliary electrodes [2023.01] 50/825 • • Multilayers, e.g. opaque moultilayers [2023.01] 50/826 • • Multilayers, e.g. opaque moultilayers [2023.01] 50/827 • Transparent carbodes, e.g. comprising thin meal layers [2023.01] 50/828 • • Transparent carbodes, e.g. comprising thin meal layers [2023.01] 50/842 • • Containers [2023.01] 50/842 • • Containers [2023.01] 50/853 • Arrangements for extracting light from the devices [2023.01] 50/855 • • Comprising a resonant cavity structure, e.g. Bragg reflector pair [2023.01] 50/854 • • comprising scattering means [2023.01] 50/865 • • comprising reflective means [2023.01] 50/866 • • comprising reflective means [2023.01] 50/867 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/868 • Terminals, e.g. bond pads [2023.01] 50/869 • Terminals, e.g. bond pads [2023.01] 50/869 • Terminals, e.g. bond pads [2023.01] 50/869 • Terminals, e.g. bond pads [2023.01] 50/860 • Terminals [2023.01] 50/860 • Term	Solution		• • • Cathodes [2023.01]	59/35 • • comprising red-green-blue [RGB]
electrodes [2023.01] 50/826 • Multilayers [2023.01] 50/827 • Transparent cathodes, e.g. comprising thin metal layers [2023.01] 50/84 • Passivation; Containers; Encapsulations [2023.01] 50/84 • Passivation; Containers; Encapsulations [2023.01] 50/85 • Containers [2023.01] 50/86 • Arrangements for extracting light from the devices [2023.01] 50/85 • Comprising a resonant cavity structure, e.g. Brags reflector pair [2023.01] 50/85 • Comprising a resonant activity structure, e.g. Brags reflector pair [2023.01] 50/85 • Comprising reflective means [2023.01] 50/85 • Comprising reflective means [2023.01] 50/86 • Arrangements for heating or cooling [2023.01] 50/87 • Arrangements for heating or cooling [2023.01] 50/88 • Arrangements for heating or cooling [2023.01] 50/89 • Arrangements for heating or cooling [2023.01] 50/80 • Terminals, e.g. bond pads [2023.01] 50/80 • Arrangements for heating or cooling [2023.01] 50/80 • Arrangements for heating or cooling [2023.01] 50/80 • Arrangements for heating or colling [2023.01] 50/80 • Integrated devices, or assemblies of multiple devices, or assemblies of multiple devices, or assemblies of multipl	electrodes [2023.01] 50/826 • Multilayers, [2023.01] 50/827 • Transparent carbodes, e.g. comprising thin medilayers [2023.01] 50/828 • Passivation, Containers, Encapsulations [2023.01] 50/829 • Containers [2023.01] 50/834 • Passivation, Containers, Encapsulations [2023.01] 50/845 • Containers [2023.01] 50/850 • Comprising a resonant cavity structure, e.g. Brogg reflector pair [2023.01] 50/850 • Comprising a resonant cavity structure, e.g. Brogg reflector pair [2023.01] 50/851 • Comprising a resonant cavity structure, e.g. Brogg reflector pair [2023.01] 50/852 • Comprising a resonant cavity structure, e.g. Brogg reflector pair [2023.01] 50/853 • Comprising a resonant cavity structure, e.g. Brogg reflector pair [2023.01] 50/854 • Comprising a reflective means [2023.01] 50/855 • Comprising reflective means [2023.01] 50/856 • Comprising reflective means [2023.01] 50/857 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/857 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/857 • Arrangements for beauting elements [2023.01] 50/857 • Arrangements for beauting elements [2023.01] 50/850 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/850 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/850 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/850 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/851 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/851 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/851 • Comprising a resonant cavity structure, e.g. Preventing reflection of ambient light [2023.01] 50/852 • Comprising preventing of a preventing reflection of ambient light [2023.01] 50/853 • Comprising preventing re			*
multilayers [2023.01] 50/828 • 1 Transpanent cathodes, e.g. comprising thin metal layers [2023.01] 50/84 • Passivation: Containers; Encapsulations [2023.01] 50/84 • Passivation: Containers; Encapsulations [2023.01] 50/85 • Containers (2023.01] 50/86 • Arrangements for extracting light from the devices [2023.01] (2023.01) 50/85 • Comprising a resonant cavity structure, e.g. Brags reflector pair [2023.01] (2023.01) 50/85 • Comprising refractive means [2023.01] (2023.01) 50/86 • Arrangements for improving contrast, e.g. perse [2023.01] (2023.01) 50/87 • Arrangements for improving contrast, e.g. perse [2023.01] (2023.01) 50/88 • Terminals, e.g. bond pads [2023.01] (2023.01) 50/89 • Terminals, e.g. bond pads [2023.01] (2023.01) 50/80 • Terminals, e.g. bond pads [2023.01] (2023.01) 50/81 • Active-matrix CLED [AMOLED] (2023.01) (2023.01) 50/12 • Characterised by the geometry or disposition of pixel elements [2023.01] (2023.01) (2023.01	multilayers [2023.01] 50/82 • Transparent calhodes, e.g., comprising thin metal layers [2023.01] 50/84 • Passivation; Containers; Encapsulations [2023.01] 50/85 • Containers [2023.01] 50/86 • Containers [2023.01] 50/87 • Arrangements for extracting light from the devices [2023.01] 50/88 • Comprising a resonant cavity structure, e.g. Bragg reflector pair [2023.01] 50/85 • Comprising a resonant cavity structure, e.g. Parage reflective means [2023.01] 50/85 • Comprising a resonant cavity structure, e.g. Parage reflective pair [2023.01] 50/85 • Comprising reflective means [2023.01] 50/86 • Comprising reflective means [2023.01] 50/87 • Arrangements for improving contrast, e.g. plenses [2023.01] 50/88 • Terminals, e.g. bond pads [2023.01] 50/87 • Arrangements for beating or cooling [2023.01] 50/88 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/80 • Terminals, e.g. bond pads [2023.01] 50/81 • OLED displays [2023.01] 50/82 • Terminals, e.g. bond pads [2023.01] 50/83 • Terminals, e.g. bond pads [2023.01] 50/84 • Terminals, e.g. bond pads [2023.01] 50/85 • Terminals, e.g. bond pads [2023.01] 50/86 • Terminals, e.g. bond pads [2023.01] 50/87 • OLED displays [2023.01] 50/88 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/80 • Terminals [2023.01] 50/80 • Termi		electrodes [2023.01]	[CCM] [2023.01]
Solition	Solution	50/826		
50/84 - Passivation; Containers; Encapsulations [2023.01]	59/84 - Passivation; Containers [2023.01] 59/85 - Containers [2023.01] 50/85 - Containers [2023.01] 50/85 - Arrangements for extracting light from the devices [2023.01] 50/85 - Comprising a resonant cavity structure, e.g. Bragg reflector pair [2023.01] 50/85 - Comprising reflective means [2023.01] 50/85 - Comprising reflective means [2023.01] 50/86 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/86 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 - Arrangements for heating or cooling [2023.01] 50/88 - Terminals, e.g. bond pads [2023.01] 50/89 - Terminals, e.g. bond pads [2023.01] 50/80 - Lotter and the cooling [2023.01] 50/81 - Contracted devices, or assemblies of multiple devices comprising at least one organic light-emitting element covered by group H10K 50/00 [2023.01] 50/12 - Contracted devices, or assemblies of multiple devices comprising at least one organic light-emitting element covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving content of the pixel elements [2023.01] 59/12 - Comprising proving content overed by group H10K 50/00 [2023.01] 59/12 - Comprising proving content overed by group H10K 50/00 [2023.01] 59/12 - Comprising proving content overed by group H10K 50/00 [2023.01] 59/12 - Comprising proving content overed by group H10K 50/00 [2023.01] 59/12 - Comprising proving content covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving content covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving content covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving content covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving content covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving content covered by group H10K 50/00 [2023.01] 59/12 - Comprising proving comprising (DLED array and TFT driving circuity on different substrates [2023.01] 59/12 - Comprising two substrates, e.g. display comprising (DLED array and TFT driving circuity on different	50/828	• • • Transparent cathodes, e.g. comprising thin	e.g. with electrochromic elements, photochromic
Solution	Solvate Containers [2023.01]		-	
50/84 • Encapsolations [2023.01] 50/85 • Arrangements for extracting light from the devices [2023.01] 50/85 • Comprising a resonant cavity structure, e.g. Bragg reflector pair [2023.01] 50/85 • Comprising reflective means [2023.01] 50/85 • Comprising refractive means [2023.01] 50/86 • Comprising refractive means [2023.01] 50/86 • Comprising refractive means, e.g. lenses [2023.01] 50/86 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 • Arrangements for heating or cooling [2023.01] 50/88 • Terminals, e.g. bond past [2023.01] 50/89 • Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element covered by group H10K 59/000 [2023.01] 59/10 • OLED displays [2023.01] 59/12 • Active-matrix OLED [AMOLED] 61/89 • Parallel algebra form devices comprising at least one organic light-emitting element (2023.01] 59/12 • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/12 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/12 • Shielding, e.g. light-blocking means over the TFT's [2023.01] 59/12 • Comprising two substrates, e.g. display comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/12 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/12 • Comprising bottonesors that control luminance [2023.01] 59/12 • Comprising	50/84 • Encapsulations [2023.01] 50/85 • Arrangements for extracting light from the devices [2023.01] 50/85 • Comprising a resonant cavity structure, e.g. Bragg reflectior pair [2023.01] 50/854 • Comprising reflective means [2023.01] 50/855 • Comprising reflective means [2023.01] 50/856 • Comprising reflective means [2023.01] 50/856 • Comprising reflective means [2023.01] 50/85 • Comprising reflective means [2023.01] 50/85 • Terminals, e.g. bond pads [2023.01] 50/86 • Terminals, e.g. bond pads [2023.01] 50/87 • Arrangements for heating or cooling [2023.01] 50/88 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/90 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element covered by group H10K 50/00 [2023.01] 59/10 • OLED displays [2023.01] 59/12 • Active-matrix OLED [AMOLED] displays [2023.01] 59/12 • Competion of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Competion of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/126 • Competion of the pixel patron of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/127 • Competion of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/128 • Competion of the pixel patron of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/129 • Competion of open leaded to the competing two substrates, e.g. displays comprising at least one organic light-emitting element and of LED elements [2023.01] 59/129 • Competion of open leaded to the competing provides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/12			
59/85 Arrangements for extracting light from the devices [2023.01]	50/85 - Arrangements for extracting light from the devices [2023.01] 50/85 - Comprising a resonant cavity structure, e.g. Bragg reflector pair [2023.01] 50/856 - Comprising scattering means [2023.01] 50/857 - Comprising reflective means [2023.01] 50/858 - Comprising reflective means [2023.01] 50/858 - Comprising reflective means [2023.01] 50/86 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/86 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 - Arrangements for incomprising a contrast, e.g. preventing reflection of ambient light [2023.01] 50/88 - Terminals, e.g. bond pads [2023.01] 50/89 - Arrangements for incomprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/80 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/80 - Arrangements for improving contrast, e.g. promprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/80 - Arrangements for improving contrast, e.g. promprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/80 - Arrangements for improving contrast, e.g. promprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/80 - Arrangements for improving contrast, e.g. promprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/80 - Arrangements for improving contrast, e.g. promprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/80 - Arrangements for improving contrast, e.g. promprising at least one organic light-emitting element covered by group HIOK 50/00 [2023.01] 50/12 - Active-matrix OLED displays [2023.01] 50/12 - Pixel-defining structures or layers, e.g. display comprising two substrates, e.g. display comprising two substrates [2023.01] 50/12 - Shielding, e.g. light-blocking means over the TF1 [2023.01] 50/12 -			
sensor [2023.01] 50/852 • • • comprising a resonant cavity structure, e.g. Bragg reflector pair [2023.01] 50/854 • • • comprising scattering means [2023.01] 50/855 • • • comprising reflective means [2023.01] 50/856 • • • comprising reflective means, e.g. lenses [2023.01] 50/86 • • • comprising reflective means, e.g. lenses [2023.01] 50/87 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/88 • • Terminals, e.g. bond pads [2023.01] 50/89 • Arrangements for heating or cooling [2023.01] 50/80 • Terminals, e.g. bond pads [2023.01] 50/81 • OLED displays [2023.01] 50/82 • Arrangements for multiple devices, comprising at least one organic light-emitting element covered by group H10/6 50/00 [2023.01] 50/12 • OLED displays [2023.01] 50/12 • Active-matrix OLED [AMOLED] displays [2023.01] 50/12 • Pixel-defining structures or layers, e.g. banks [2023.01] 50/12 • Insulating layers formed between TFT elements and OLED elements [2023.01] 50/12 • Competing organic TFTs [7023.01] 50/12 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 50/12 • Comprising two midependent displays, e.g. for emitting information from two major sides of the display [2023.01] 50/12 • Comprising two independent displays, e.g., for emitting information from two major sides of the display [2023.01] 50/12 • Comprising two independent displays, e.g., for emitting information from two major sides of the display [2023.01] 50/12 • Comprising two independent displays, e.g., for emitting information from two major sides of the display [2023.01] 50/12 • Comprising two independent displays, e.g., for emitting information from two major sides of the display [2023.01] 50/12 • Comprising two independent displays, e.g., for emitting information from two major sides of the display [2023.01] 50/12 • Comprising two independent displays, e.g., for emitting information from two major sides of the display [2023.01] 50/12 • Compri	sensors [2023.01] 50/852 • Comprising a resonant cavity structure, e.g. brage reflector pair [2023.01] 50/854 • Comprising greflective means [2023.01] 50/855 • Comprising reflective means [2023.01] 50/865 • Arrangements for improving contrast, e.g. lenses [2023.01] 50/867 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 • Arrangements for heating or cooling [2023.01] 50/88 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/80 • OLED displays [2023.01] 50/80 • OLED displays [2023.01] 50/80 • OLED displays [2023.01] 50/81 • Characterised by the geometry or disposition of pixel elements [2023.01] 50/120 • Characterised by the geometry or disposition of pixel elements [2023.01] 50/121 • Characterised by the geometry or disposition of pixel elements [2023.01] 50/122 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 50/125 • Comprising two substrates, e.g. display comprising two substrates, e.g. display comprising two substrates, e.g. display comprising [2023.01] 50/126 • Comprising two substrates [2023.01] 50/127 • Comprising two substrates [2023.01] 50/128 • Comprising two substrates [2023.01] 50/129 • Chiples [2023.01] 50/129 • Chiples [2023.01] 50/120 • Chiples [2023.01] 50/121 • Comprising photosensors that control luminance [2023.01] 50/127 • Comprising photosensors that control luminance [2023.01] 50/128 • Comprising two substrates [2023.01] 50/129 • Chiples [2023.01] 50/129 • Chiples [2023.01] 50/129 • Chiples [2023.01] 50/120 • Comprising photosensors that control luminance [2023.01] 50/121 • Chiples [2023.01] 50/122 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 50/129 • Chiples [2023.01] 50/1		•	
significance of the properties	sements, e.g., with inorganic electroluminescent elements, 2023.01] 50/854 • • comprising reflective means [2023.01] 50/855 • • comprising reflective means, e.g. lenses [2023.01] 50/86 • Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 • Arrangements for heating or cooling [2023.01] 50/88 • Terminals, e.g. bond pads [2023.01] 50/89 • Terminals, e.g. bond pads [2023.01] 50/80 • Series electrical configurations of multiple devices, comprising at least one organic light-emitting elements concerning the concerning the path pads (2023.01] 50/80 • Terminals, e.g. bond pads [2023.01] 50/80 • Te	50/85		sensors [2023.01]
Solvation Solv	solvate in comprising scattering means [2023.01] 50/856 • • • comprising reflective means [2023.01] 50/856 • • • comprising reflective means [2023.01] 50/856 • • comprising reflective means [2023.01] 50/86 • Arrangements for improving contrast, e.g. lenses [2023.01] 50/87 • Arrangements for heating or cooling [2023.01] 50/88 • • Terminals, e.g. bond pads [2023.01] 50/89 • Arrangements for heating or cooling [2023.01] 50/80 • Terminals, e.g. bond pads [2023.01] 50/80 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element covered by group H10K 50/00 [2023.01] 50/10 • OLED displays [2023.01] 50/12 • Active-matrix OLED [AMOLED] displays [2023.01] 50/12 • Oconection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 50/12 • Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and OLED elements [2023.01] 50/12 • Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element [2023.01] 50/12 • Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element [2023.01] 50/12 • Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic light-emitting element and at least one organic light-emitting element [2023.01] 50/12 • Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element [2023.01] 50/12 • Integrated devices or assemblies of multiple devices, comprising at least one organic light-emitting element [2023.01] 50/12 • Integrated devices or assemblies of multiple devices, comprising at least one organic light-emitting element [2023.01] 50/12 • Integrated devices or assemblies of multiple devices or and of LED clements [2023.01] 50/12 • Integrated devices or assemblies of multiple devices or assemblies of multiple devices or assemblies of multiple device	50/852		
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50/856 - Comprising refractive means (223.01) 50/86 - Comprising refractive means, e.g. lenses [2023.01] 50/87 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 50/87 - Arrangements for heating or cooling [2023.01] 50/88 - Terminals, e.g. bond pads [2023.01] 50/89 - Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element covered by group H10K 50/00 [2023.01] 59/10 - OLED displays [2023.01] 59/12 - Active-matrix OLED [AMOLED] displays [2023.01] 59/12 - Pixel-defining structures or layers, e.g. banks [2023.01] 59/12 - Pixel-defining structures or layers, e.g. banks [2023.01] 59/12 - Shielding, e.g. light-blocking means over the TFT elements and OLED elements [2023.01] 59/12 - Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/12 - Comprising two substrates, e.g. display comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/12 - Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/12 - Comprising benotesnors that control luminance [2023.01] 59/12 - Comprising benotesnors that control luminance [2023.01] 59/12 - Comprising photosensors that control luminance [2023.01] 59/12 - Comprising photosensors that control luminance [2023.01] 59/12 - Comprising banks or shadow masks [2023.01]	50/856 -			
Solve Solv	HIOK 59/179 take precedence [2023.01]			
50/86 - Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01] 59/86 - Carrangements for heating or cooling [2023.01] 59/86 - Series electrical configurations of multiple OLEDs [2023.01] 59/86 - Series electrical configurations of multiple OLEDs [2023.01] 59/86 - Dummy elements, i.e. elements having non-functional features [2023.01] 59/90 - Assemblies of multiple devices, comprising at least one organic light-emitting element covered by group H10K 50/00 [2023.01] 59/91 - Active-matrix OLED [AMOLED] 59/912 - Active-matrix OLED [AMOLED] 59/912 - Characterised by the geometry or disposition of pixel elements [2023.01] 59/122 - Pixel-defining structures or layers, e.g. banks [2023.01] 59/124 - Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 - Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/126 - Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/128 - Comprising two substrates, e.g. display comprising two substrates [2023.01] 59/128 - Comprising two substrates [2023.01] 59/128 - Comprising two substrates [2023.01] 59/129 - Chiplets [202	So/86 Arrangements for improving contrast, e.g. preventing reflection of ambient light [2023.01]	50/858		
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59/08 • • Terminals, e.g. bond pads [2023.01] 59/88 • Dummy elements, i.e. elements having non-functional features [2023.01] 59/90 Placement covered by group H10K 50/00 [2023.01] 59/90 • OLED displays [2023.01] 59/95 • Wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 59/122 • • Characterised by the geometry or disposition of pixel elements [2023.01] 59/122 • • Pixel-defining structures or layers, e.g. banks [2023.01] 59/123 • • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/125 • • Including organic TFTs [2023.01] 59/126 • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • • • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 59/129 • • Chiplets [2023.01] 59/13 • • Interconnections, e.g. wiring lines or terminals [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow masks [2023.01] 59/13 • • • Comprising banks or shadow m	Trip Description Spirate Spi	50/87	• • Arrangements for heating or cooling [2023.01]	
somprising at least one organic light-emitting element (2023.01) 59/10	comprising at least one organic light-emitting element (2023.01] 59/10	50/88	• • Terminals, e.g. bond pads [2023.01]	59/88 • • Dummy elements, i.e. elements having non-
element covered by group H10K 50/00 [2023.01] 59/10	Selement covered by group H10K 50/00 [2023.01] 59/102 OLED displays [2023.01] 59/102 OLED displays [2023.01] 59/102 OLED displays [2023.01] 65/00 65/00 Integrated devices, or assemblies of multiple devices, or pixel elements [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, or pixel elements [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, or pixel elements [2023.01] 65/00 Integrated devices, or assemblies of multiple devices or assemblies of multiple devices, or assemblies of multiple devices or assemblies of multiple devices or assemblies of multiple devices, or assemblies of multiple devices or assemblies of multiple devices, or assemblies of multiple devices or assemblies of multiple devices, or as	59/00	Integrated devices, or assemblies of multiple devices,	
59/10 • OLED displays [2023.01] 59/12 • Active-matrix OLED [AMOLED] displays [2023.01] 59/12 • Pixel-defining structures or layers, e.g. banks [2023.01] 59/12 • Pixel-defining structures or layers, e.g. banks [2023.01] 59/12 • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/12 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/12 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/12 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/12 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/12 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/13 • Chiplets [2023.01] 59/13 • Chiplets [2023.01] 59/13 • Passive-matrix OLED displays [2023.01] 59/17 • Characterised by the geometry or disposition of or sputtering [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Characterised by the solvent used [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Depining active layers, e.g. electron transporting	Solition		comprising at least one organic light-emitting	59/90 • Assemblies of multiple devices comprising at least
59/12 • Active-matrix OLED [AMOLED] displays [2023.01] 59/121 • Active-matrix OLED [AMOLED] displays [2023.01] 59/122 • Characterised by the geometry or disposition of pixel elements [2023.01] 59/123 • Pixel-defining structures or layers, e.g. banks [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/177 • Passive-matrix OLED displays [2023.01] 59/178 • Comprising banks or shadow masks [2023.01] 59/177 • Passive-matrix OLED displays [2023.01] 59/178 • Comprising banks or shadow masks [2023.01] 59/179 • Comprising banks or shadow masks [2023.01]	Solid Signary (2023.01) e.g. assembled OLED displays [2023.01]			one organic light-emitting element [2023.01]
59/121 • • • characterised by the geometry or disposition of pixel elements [2023.01] 59/122 • • Pixel-defining structures or layers, e.g. banks [2023.01] 59/123 • • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/173 • Comprising banks or shadow masks [2023.01]	Solution	59/10	element covered by group H10K 50/00 [2023.01]	
pixel elements [2023.01] 59/122 • Pixel-defining structures or layers, e.g. banks [2023.01] 59/123 • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Including organic TFTs [OTFT] [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/13 • Comprising photosensors that control luminance [2023.01] 59/13 • Passive-matrix OLED displays [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/173 • Comprising banks or shadow masks [2023.01]	pixel elements [2023.01] 59/122		 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] 	59/95 • • wherein all light-emitting elements are organic,
59/122 • Pixel-defining structures or layers, e.g. banks [2023.01] 59/123 • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Inicluding organic TFTs [OTFT] [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/173 • Comprising banks or shadow masks [2023.01] 59/173 • Comprising banks or shadow masks [2023.01] 59/173 • Direction of the pixel electrodes to the thin film transistors [TFT] [2023.01] thin photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01] 71/10 Deposition of organic active material [2023.01] 71/10 · Deposition of organic active material [2023.01] 71/12 · using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 · characterised by the solvent used [2023.01] 71/16 · using physical vapour deposition or sputtering [2023.01] 71/18 · using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 · Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/20 · Depoing active layers, e.g. e.g. electron transporting	Solition Pixel-defining structures or layers, e.g. banks 2023.01 Solition Sol	59/12	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] 	• • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01]
banks [2023.01] 59/123 • • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • • Including organic TFTs [OTFT] [2023.01] 59/126 • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Comprising banks or shadow masks [2023.01] 59/17 • Comprising banks or shadow masks [2023.01]	banks [2023.01] 59/123 • • • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • • • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • • • Including organic TFTs [OTFT] [2023.01] 59/126 • • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • • • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • • • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Comprising two independent displays, e.g. for emitting information from two major sides of emitting information from two major sides of terminals [2023.01] 59/18 • • Chiplets [2023.01] 59/19 • • Chiplets [2023.01] 59/10 • Passive-matrix OLED displays [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Comprising two independent displays, e.g. for emitting information from two major sides of emitting information from two major sides	59/12	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting
59/123 • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/131 • Passive-matrix OLED displays [2023.01] 59/173 • Comprising banks or shadow masks [2023.01] 59/173 • Comprising banks or shadow masks [2023.01] 59/173 • Comprising banks or shadow masks [2023.01]	59/123 • Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/131 • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Comprising banks or shadow masks [2023.01] 59/17 • Comprising banks or shadow makes [2023.01] 59/17 • Comprising two independent displays, e.g. for emitting information from two major sides of terminals [2023.01] 59/17 • Comprising banks or shadow masks [2023.01] 59/17 • Comprising banks or shadow masks [2023.01] 59/17 • Comprising two independent displays, e.g. for emitting information from two major sides of a comprising banks or shadow masks [2023.01] 59/18 • Comprising banks or shadow masks [2023.01] 59/19 • Comprising banks or shadow masks [2023.01] 59/10 • Comprising banks or shadow masks [2023.01] 59/10 • Comprising two independent displays, e.g. for emitting information from two major sides of emitting information from two major sides of the matrix of the treatment, e.g. annealing in the presence of a comprising two independent displays, e.g. for emitting information from two major sides of the comprising two independent displays, e.g. for emitting information from two major sides of the comprising two independent displays, e.g. for emitting information from two major sides of the comprising two independent displays, e.g. for emitting inf	59/12 59/121	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive
film transistors [TFT] [2023.01] photosensors H10K 59/13) [2023.01] 59/124 • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • Including organic TFTs [OTFT] [2023.01] 59/126 • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • Comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • Chiplets [2023.01] 59/131 • Comprising photosensors that control luminance [2023.01] 59/131 • Passive-matrix OLED displays [2023.01] 59/173 • Comprising banks or shadow masks [2023.01]	Film transistors [TFT] [2023.01] photosensors H10K 59/13) [2023.01]	59/12 59/121	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image
59/124 • • Insulating layers formed between TFT elements and OLED elements [2023.01] 59/125 • • including organic TFTs [OTFT] [2023.01] 59/126 • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • • comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • • comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • Chiplets [2023.01] 59/131 • Comprising photosensors that control luminance [2023.01] 59/131 • Passive-matrix OLED displays [2023.01] 59/173 • comprising banks or shadow masks [2023.01] 59/173 • comprising banks or shadow masks [2023.01] 59/173 • comprising banks or shadow masks [2023.01] 59/185 • comprising banks or shadow masks [2023.01] 59/197 • Passive-matrix OLED displays [2023.01] 59/197 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 59/197 • comprising banks or shadow masks [2023.01]	Solution	59/12 59/121 59/122	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices
Solition Shielding organic TFTs [OTFT] [2023.01] Manufacture or treatment; Constructional details [2023.01]	Solution	59/12 59/121 59/122	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with
59/126 • • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • • • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • • • comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 59/13 • • Comprising photosensors that control luminance [2023.01] 59/13 • • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • Comprising banks or shadow masks [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/30 • Deposition of organic active material [2023.01] 71/10 • Deposition of organic active material [2023.01] • using liquid deposition, e.g. spin coating [2023.01] • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] • Changing the shape of the active layer in the devices, e.g. patterning [2023.01]	59/126 • • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/127 • • Shielding, e.g. light-blocking means over the TFTs [2023.01] 59/128 • • • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 59/128 • • • comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 59/130 • • • Chiplets [2023.01] 59/131 • • Interconnections, e.g. wiring lines or terminals [2023.01] 59/131 • • Passive-matrix OLED displays [2023.01] 59/173 • • comprising two independent displays, e.g. for emitting information from two major sides of an emitting information from two major sides of an emitting information from two major sides of a size of the analysis and the organic devices covered by this subclass [2023.01] 71/10 • Deposition of organic active material [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • using printing techniques, e.g. ink-jet printing [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/30 • Doping active layers, e.g. electron transporting layers [2023.01] 71/40 • Thermal treatment, e.g. annealing in the presence of a	59/12 59/121 59/122 59/123	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with
TFTs [2023.01] 59/127	TFTs [2023.01] 59/127	59/12 59/121 59/122 59/123 59/124	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01]
59/127 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/30 • Doping active layers, e.g. electron transporting layers [2023.01]	59/128 • Comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/19 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 9/173 • comprising banks or shadow masks [2023.01] 7/1/30 • Doping active material [2023.01] 9/1/30 • Thermal treatment, e.g. annealing in the presence of a state of the presence of a st	59/12 59/121 59/122 59/123 59/124 59/125	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01]
59/128 • • • comprising OLED array and 1FT driving circuitry on different substrates [2023.01] 59/128 • • • comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 59/13 • • Chiplets [2023.01] 59/13 • • Comprising photosensors that control luminance [2023.01] 59/131 • • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/173 • • comprising banks or shadow masks [2023.01] 59/174 • Doping active layers, e.g. electron transporting locating [2023.01] 59/185 • using liquid deposition, e.g. spin coating [2023.01] • characterised by the solvent used [2023.01] • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] • Changing the shape of the active layer in the devices, e.g. patterning [2023.01]	59/128 • • • comprising OLED diray and 1FT driving circuitry on different substrates [2023.01] 71/12 • • using liquid deposition, e.g. spin coating [2023.01] 71/13 • • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 1 vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 1 vacuum deposition or sputtering [2023.01] 1 vacuum deposition [2023.01] 1	59/12 59/121 59/122 59/123 59/124 59/125 59/126	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] 	 • • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the
59/128 • • • comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 71/15 • • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/30 • Doping active layers, e.g. electron transporting layers [2023.01]	59/128 • • • comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 59/129 • • • Chiplets [2023.01] 71/15 • • • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] • • • comprising banks or shadow masks [2023.01] 71/30 • Doping active layers, e.g. electron transporting layers [2023.01] • Thermal treatment, e.g. annealing in the presence of a relative transfer printing from the presence of a relative transfer printing in the presence of a relative transfer printing techniques, e.g. ink-jet printing or screen printing [2023.01] • • • characterised by the solvent used [2023.01] • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] • Doping active layers, e.g. electron transporting layers [2023.01] • Thermal treatment, e.g. annealing in the presence of a relative transfer printing techniques, e.g. ink-jet printing or screen printing [2023.01]	59/12 59/121 59/122 59/123 59/124 59/125 59/126	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] comprising two substrates, e.g. display 	 * • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01]
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59/131 • • • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • • Passive-matrix OLED displays [2023.01] 59/17 • • comprising banks or shadow masks [2023.01] 59/17 • • Doping active layers, e.g. electron transporting layers [2023.01]	59/131 • • Interconnections, e.g. wiring lines or terminals [2023.01] 59/17 • Passive-matrix OLED displays [2023.01] 59/17 • comprising banks or shadow masks [2023.01] 59/17 • comprising two independent displays, e.g. for emitting information from two major sides of	59/12 59/121 59/122 59/123 59/124 59/125 59/126 59/127	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] 	 * • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01] 71/10 • Deposition of organic active material [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • characterised by the solvent used [2023.01]
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59/173 • • • comprising banks or shadow masks [2023.01] 71/30 • Doping active layers, e.g. electron transporting	59/173 • • • comprising banks or shadow masks [2023.01] 59/176 • • • comprising two independent displays, e.g. for emitting information from two major sides of 71/30 • Doping active layers, e.g. electron transporting layers [2023.01] 71/40 • Thermal treatment, e.g. annealing in the presence of a	59/12 59/121 59/122 59/123 59/124 59/125 59/126 59/127 59/128 59/129 59/13	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] Chiplets [2023.01] comprising photosensors that control luminance [2023.01] Interconnections, e.g. wiring lines or 	 * • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01] 71/10 • Deposition of organic active material [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices,
	59/176 • • • comprising two independent displays, e.g. for emitting information from two major sides of emittin	59/12 59/121 59/122 59/123 59/124 59/125 59/126 59/127 59/128 59/129 59/13 59/131	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] Chiplets [2023.01] comprising photosensors that control luminance [2023.01] Interconnections, e.g. wiring lines or terminals [2023.01] 	 * • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01] 71/10 • Deposition of organic active material [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01]
53/1/0 ••• Comprising two independent displays, e.g. 101	emitting information from two major sides of 71/40 • Thermal treatment, e.g. annealing in the presence of a	59/12 59/121 59/122 59/123 59/124 59/125 59/126 59/127 59/128 59/128 59/129 59/13 59/131 59/17	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] Chiplets [2023.01] Interconnections, e.g. wiring lines or terminals [2023.01] Passive-matrix OLED displays [2023.01] 	 * • wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01] 71/10 • Deposition of organic active material [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/15 • characterised by the solvent used [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/30 • Doping active layers, e.g. electron transporting
emitting information from two major sides of 71/40 • Thermal treatment, e.g. annealing in the presence of a		59/12 59/121 59/122 59/123 59/124 59/125 59/126 59/127 59/128 59/129 59/13 59/131 59/17 59/173	 element covered by group H10K 50/00 [2023.01] OLED displays [2023.01] Active-matrix OLED [AMOLED] displays [2023.01] characterised by the geometry or disposition of pixel elements [2023.01] Pixel-defining structures or layers, e.g. banks [2023.01] Connection of the pixel electrodes to the thin film transistors [TFT] [2023.01] Insulating layers formed between TFT elements and OLED elements [2023.01] including organic TFTs [OTFT] [2023.01] Shielding, e.g. light-blocking means over the TFTs [2023.01] comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates [2023.01] comprising two independent displays, e.g. for emitting information from two major sides of the display [2023.01] Chiplets [2023.01] comprising photosensors that control luminance [2023.01] Interconnections, e.g. wiring lines or terminals [2023.01] Passive-matrix OLED displays [2023.01] comprising banks or shadow masks [2023.01] 	 * wherein all light-emitting elements are organic, e.g. assembled OLED displays [2023.01] 65/00 Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13) [2023.01] Manufacture or treatment; Constructional details [2023.01] 71/00 Manufacture or treatment specially adapted for the organic devices covered by this subclass [2023.01] 71/10 • Deposition of organic active material [2023.01] 71/12 • using liquid deposition, e.g. spin coating [2023.01] 71/13 • using printing techniques, e.g. ink-jet printing or screen printing [2023.01] 71/16 • using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering [2023.01] 71/18 • using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet [2023.01] 71/20 • Changing the shape of the active layer in the devices, e.g. patterning [2023.01] 71/30 • Doping active layers, e.g. electron transporting layers [2023.01]

IPC (2025.01), Section H 3

71/50

e.g. lamination techniques [2023.01] properties of organic materials [2023.01] 71/60 Forming conductive regions or layers, e.g. 101/00 Properties of the organic materials covered by group electrodes [2023.01] H10K 85/00 [2023.01] 71/70 Testing, e.g. accelerated lifetime tests [2023.01] using temporary substrates [2023.01] 71/80 • Triplet emission [2023.01] 101/10 77/00 Constructional details of devices covered by this Delayed fluorescence emission [2023.01] subclass and not covered by groups H10K 10/80, 101/20 H10K 30/80, H10K 50/80 or H10K 59/80 [2023.01] 101/25 using exciplex [2023.01] 77/10 • Substrates, e.g. flexible substrates [2023.01] 101/30 · Highest occupied molecular orbital [HOMO], lowest unoccupied molecular orbital [LUMO] or Fermi 85/00 Organic materials used in the body or electrodes of energy values [2023.01] devices covered by this subclass [2023.01] 101/40 Interrelation of parameters between multiple constituent active layers or sublayers, e.g. HOMO Note(s) [2023.01] values in adjacent layers [2023.01] This group only <u>covers</u> organic materials for their 101/50 Oxidation-reduction potentials, e.g. excited state electrical or other properties, insofar as they are redox potentials [2023.01] specially adapted for the devices covered by this 101/60 Up-conversion, e.g. by triplet-triplet subclass. annihilation [2023.01] 101/70 Down-conversion, e.g. by singlet fission [2023.01] 85/10 Organic polymers or oligomers [2023.01] 85/20 Carbon compounds, e.g. carbon nanotubes or Indexing scheme associated with groups H10K 10/80, fullerenes [2023.01] H10K 30/80, H10K 50/80, H10K 59/80 and H10K 77/00, relating 85/30 Coordination compounds [2023.01] to constructional details [2023.01] 85/40 Organosilicon compounds, e.g. TIPS Constructional details relating to the organic devices 102/00 pentacene [2023.01] covered by this subclass [2023.01] Organic perovskites; Hybrid organic-inorganic 85/50 perovskites [HOIP], e.g. CH₃NH₃PbI₃ [2023.01] Organic compounds having low molecular weight 85/60

102/10

102/20

Indexing scheme associated with group H10K 85/00, relating to

• Transparent electrodes, e.g. using graphene [2023.01]

Metallic electrodes, e.g. using a stack of

layers [2023.01]

(H10K 85/10-H10K 85/50 take precedence) **[2023.01]**

Forming devices by joining two substrates together,