CPC COOPERATIVE PATENT CLASSIFICATION

H ELECTRICITY

(NOTE omitted)

H02 GENERATION; CONVERSION OR DISTRIBUTION OF ELECTRIC POWER

H02S GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRARED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, e.g. USING

PHOTOVOLTAIC [PV] MODULES (obtaining electrical energy from radioactive sources G21H 1/12; light sensitive inorganic semiconductor devices H10F; light sensitive organic semiconductor devices H10K 30/00; thermoelectric devices H10N 10/00; pyroelectric devices H10N 15/00)

10/00	PV power plants; Combinations of PV energy	30/20	• Collapsible or foldable PV modules
	systems with other systems for the generation of electric power	40/00	Components or accessories in combination
10/10	 including a supplementary source of electric power, 		with PV modules, not provided for in groups H02S 10/00 - H02S 30/00
	e.g. hybrid diesel-PV energy systems (combinations	40/10	Cleaning arrangements
10/12	with gas-turbine plants <u>F02C 6/00</u>)	40/12	Means for removing snow
10/12 10/20	. Hybrid wind-PV energy systems. Systems characterised by their energy storage	40/20	Optical components
10/20	means (H02S 40/38 takes precedence)	40/22	. Light-reflecting or light-concentrating means
10/30	Thermophotovoltaic systems (photovoltaic cells specially adopted for conversion or sensing of		(directly associated with the PV cell or integrated with the PV cell <u>H10F 77/42</u>)
	specially adapted for conversion or sensing of infrared [IR] radiation <u>H10F 10/00</u> ; thermoelectric	40/30	Electrical components
	devices H10N 10/00)	40/32	comprising DC/AC inverter means associated
10/40	. Mobile PV generator systems		with the PV module itself, e.g. AC modules
20/00	Supporting structures for PV modules	40/34	comprising specially adapted electrical connection means to be structurally associated
	NOTE	40/045	with the PV module, e.g. junction boxes
	Supporting structures also intended for use with	40/345	• • • {with cooling means associated with the
	solar heat collectors should also be classified in		electrical connection means, e.g. cooling means associated with or applied to the junction box
	groups <u>F24S 25/00-F24S 30/00</u> or <u>F24S 50/20</u>		(cooling means for PV cells <u>H10F 77/63</u> , for PV modules <u>H02S 40/42</u>)}
20/10	Supporting structures directly fixed to the ground	40/36	•
20/20	(H02S 20/30 takes precedence)	40/30	means between two or more PV modules, e.g.
20/20	 Supporting structures directly fixed to an immovable object (H02S 20/30 takes precedence) 		electrical module-to-module connection
20/21	specially adapted for motorways, e.g. integrated	40/38	• • Energy storage means, e.g. batteries, structurally
	with sound barriers	40/40	associated with PV modules
20/22	 specially adapted for buildings 	40/40	• Thermal components (<u>H02S 10/30</u> takes precedence)
20/23	• • • specially adapted for roof structures	40/42	Cooling means
20/24	specially adapted for flat roofs	40/425	• • • {using a gaseous or a liquid coolant, e.g. air
20/25	Roof tile elements	10/ 123	flow ventilation, water circulation}
20/26	 Building materials integrated with PV modules, e.g. façade elements (H02S 20/25 takes 	40/44	Means to utilise heat energy, e.g. hybrid systems
	precedence)		producing warm water and electricity at the same
20/30	Supporting structures being movable or adjustable,		time (directly associated with the PV cell or
	e.g. for angle adjustment		integrated with the PV cell <u>H10F 77/67</u>)
20/32	• • specially adapted for solar tracking	50/00	Monitoring or testing of PV systems, e.g. load
30/00	Structural details of PV modules other than those	50/10	balancing or fault identification
	related to light conversion (semiconductor device	50/10	Testing of PV devices, e.g. of PV modules or single
	aspects of modules of electrolytic light sensitive		PV cells (testing of semiconductor devices during manufacturing {H01L 22/00})
	devices H01G 9/20, of inorganic PV modules	50/15	 using optical means, e.g. using
	<u>H10F 10/00</u> , <u>H10F 19/00</u> , of organic PV modules	20,10	electroluminescence
20/10	<u>H10K 30/00</u>)	00/00	
30/10	Frame structures	99/00	Subject matter not provided for in other groups of this subclass

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