

H02S

GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, e.g. USING PHOTOVOLTAIC [PV] MODULES (light sensitive inorganic semiconductor devices H01L31/00; thermoelectric devices H01L35/00; pyroelectric devices H01L37/00; light sensitive organic semiconductor devices H01L51/00; obtaining electrical energy from radioactive sources G21H1/12; solar heat collectors F24J2/00)

Definition statement

This subclass/group covers:

This subclass covers :

- Photovoltaic [PV] power plants, e.g. mobile PV generator systems
- Combination of PV power plants with other systems for generation of electric energy
- Supporting structures for PV modules
- Structural details of PV modules not involving light conversion
- Components or accessories specially adapted for PV modules, e.g. cleaning arrangements, optical components, electrical components, thermal components
- Monitoring or testing of PV systems, e.g. load balancing or fault identification
- Testing of PV devices

References relevant to classification in this group

This subclass/group does not cover:

Light sensitive inorganic semiconductor devices	H01L 31/00
Thermoelectric devices	H01L 35/00
Pyroelectric devices	H01L 37/00
Light sensitive organic semiconductor devices	H01L 51/00
Obtaining electrical energy from	G21H 1/12

radioactive sources	
Solar heat collectors	F24J 2/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Space applications, e.g. power supply for satellites made of solar cell modules	B64J
Circuit arrangements or systems for supplying or distributing electric power	H02J

H02S 10/00

PV power plants; Combinations of PV energy systems with other systems for the generation of electric power

Definition statement

This subclass/group covers:

- Power plants
- Hybrid diesel-PV energy systems
- Hybrid wind-PV energy systems
- Hybrid hydroelectric-PV energy systems
- Energy storage means integrated in or associated with PV power plants
- Thermophotovoltaic systems
- Mobile PV generators

H02S 20/00

Supporting structures for PV modules

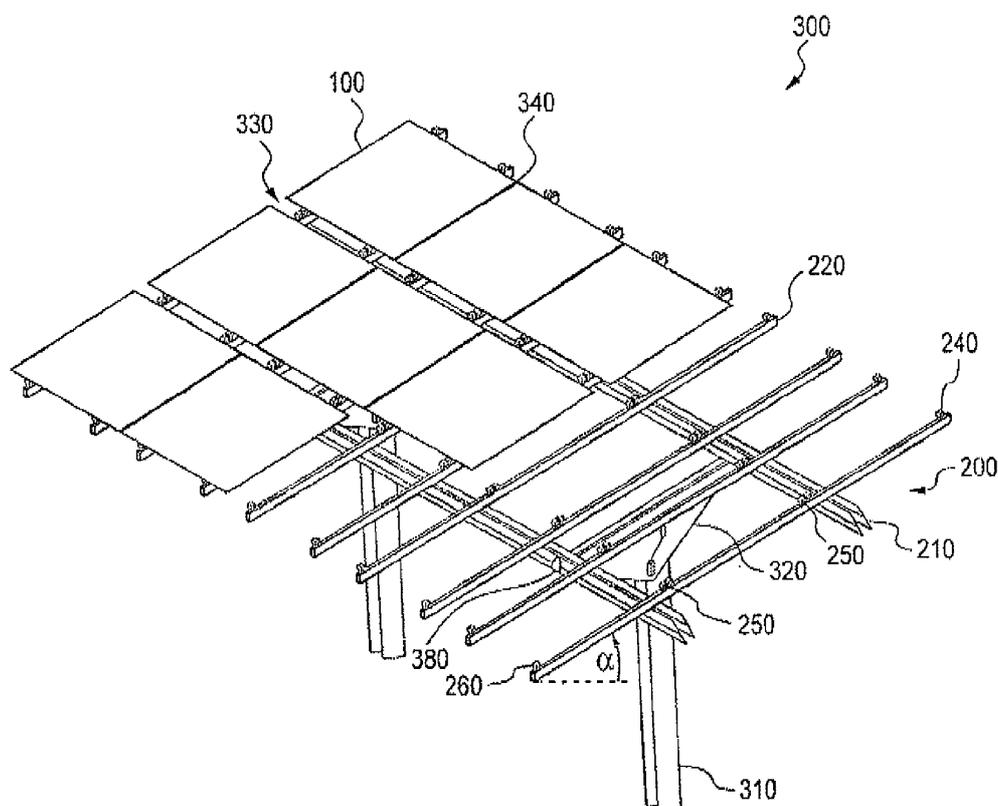
Definition statement

This subclass/group covers:

This group covers :

- Mechanical structures for supporting one or a plurality of PV modules.

Example:



Special rules of classification within this group

Supporting structures also intended for use with solar heat collectors should also be classified in groups [F24J 2/38](#) or [F24J 2/52](#)

H02S 30/00

Structural details of PV modules not involving light conversion (semiconductor device aspects of inorganic PV modules H01L31/00, of organic PV modules H01L51/00, of modules of electrolytic light sensitive devices H01G9/20)

Definition statement

This subclass/group covers:

This group covers :

- Frame structures

- Collapsible or foldable PV modules

References relevant to classification in this group

This subclass/group does not cover:

Semiconductor device aspects of modules of electrolytic light sensitive devices	H01G 9/20
Semiconductor device aspects of inorganic PV modules	H01L 31/00
Semiconductor device aspects of organic PV modules	H01L 51/00

H02S 40/00

Components or accessories specially adapted for PV modules, not provided for in groups H02S10/00 - H02S30/00

Definition statement

This subclass/group covers:

This group covers :

- Cleaning arrangements, e.g. means for removing snow
- Optical components, e.g. light-concentrating means
- Electrical components, e.g. junction boxes, module-to-module interconnection
- Thermal components, e.g. cooling means

H02S 50/00

Monitoring or testing of PV systems, e.g. load balancing or fault identification

Informative references

Attention is drawn to the following places, which may be of interest for search:

Burglar, theft or intruder alarms	G08B 13/00
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H02S 99/00

Subject matter not provided for in other groups of this subclass