F24S

SOLAR HEAT COLLECTORS; SOLAR HEAT SYSTEMS (for producing mechanical power from solar energy F03G 6/00)

References

Limiting references

This place does not cover:

Devices for producing mechanical power from solar energy	F03G 6/00
Devices for producing mechanical power from solar energy	1 000 0/00

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Distillation or evaporation of water using solar energy	C02F 1/14
Drying solid materials or objects by radiation, e.g. from the sun	F26B 3/28
Photovoltaic [PV] cells including means directly associated with the PV cell to utilise heat energy	H01L 31/0525
Thermophotovoltaic systems	H02S 10/30
Photovoltaic [PV] modules including means associated with the PV module to utilise heat energy	H02S 40/44

Informative references

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

Semiconductor devices specially adapted for converting solar energy i	nto H01L 31/00
electrical energy	

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Solar heat collector modules	whole solar heat collectors; part of solar heat collectors, e.g. reflectors, lens or heat storages
Absorbing elements	elements for absorbing solar-ray and converting it into heat
Solar heat systems	systems having solar heat collectors as their components and using the collected heat

F24S 10/25

having two or more passages for the same working fluid layered in direction of solar-rays, e.g. having upper circulation channels connected with lower circulation channels

References

Informative references

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

Solar heat collectors having working fluid conveyed through collector, the working fluid being conveyed between plates	F24S 10/50
Solar heat collectors having working fluid conveyed through collector, the working fluid being conveyed through tubular heat absorbing conduits	F24S 10/70

F24S 10/95

having evaporator sections and condenser sections, e.g. heat pipes

References

Informative references

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

Heat-exchange apparatus with the intermediate heat-transfer medium	F28D 15/02
in closed tubes passing into or through the conduit walls in which the	
medium condenses and evaporates, e.g. heat-pipes	

F24S 20/67

in the form of roof constructions (in the form of shingles or tiles F24S 20/69)

References

Limiting references

This place does not cover:

Solar heat collectors integrated in fixed constructions in the form of	F24S 20/69
shingles or tiles	

Informative references

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

Cupporting atrustures angoight adopted for roof atrustures of buildings for	H02C 20/22
Supporting structures specially adapted for roof structures of buildings for	<u> 1025 20/23</u>
directly fixing photovoltaic modules	

F24S 23/00

Arrangements for concentrating solar-rays for solar heat collectors

References

Informative references

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

Optical elements or systems per se	G02B
'	

F24S 25/00

Arrangement of stationary mountings or supports for solar heat collector modules

References

Informative references

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

Stands or trestles as supports for apparatus not specific to apparatus provided for elsewhere	F16M 11/00
Supporting structures specially adapted for roof structures of buildings for directly fixing photovoltaic modules	H02S 20/23

F24S 30/00

Arrangements for moving or orienting solar heat collector modules

References

Informative references

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

Stands or trestles as supports for apparatus not specific to apparatus provided for elsewhere	F16M 11/00
Supporting structures specially adapted for roof structures of buildings for directly fixing photovoltaic modules	H02S 20/23

F24S 50/20

for tracking

References

Informative references

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

Arrangements for moving or orienting solar heat collector modules	F24S 30/00
Supporting structures of photovoltaic modules for generation of electric power specially adapted for solar tracking systems	H02S 20/32

F24S 60/00

Arrangements for storing heat collected by solar heat collectors (working fluids forming pools or ponds F24S 10/10)

References

Limiting references

This place does not cover:

Arrangements for storing heat collected by solar heat collectors in the	F24S 10/10
working fluids forming pools or ponds	

Informative references

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

Heat storage plants or apparatus in general	F28D 20/00
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F24S 70/20

characterised by absorbing coatings; characterised by surface treatment for increasing absorption

References

Informative references

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

Radiation-absorbing paints	C09D 5/32
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F24S 80/20

Working fluids specially adapted for solar heat collectors

References

Informative references

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

Materials for heat transfer	<u>C09K 5/00</u>
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F24S 80/30

Arrangements for connecting the fluid circuits of solar collectors with each other or with other components, e.g. pipe connections; Fluid distributing means, e.g. headers

References

Informative references

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

Joints or fittings for pipes in general	F16L
	,

	<u> </u>
Branch units for pipes in general	<u>F16L 41/02</u>

F24S 80/50

Elements for transmitting incoming solar rays and preventing outgoing heat radiation; Transparent coverings

References

Informative references

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

Solar heat collectors having working fluid conveyed through collector	F24S 10/40
surrounded by transparent enclosures, e.g. evacuated solar collectors	

F24S 90/00

Solar heat systems not otherwise provided for

References

References out of a residual place

Examples of places in relation to which this place is residual:

Distillation or evaporation of water using solar energy	C02F 1/14
Devices for producing mechanical power from solar energy	F03G 6/00
Photovoltaic [PV] cells including means directly associated with the PV cell to utilise heat energy	H01L 31/0525
Thermophotovoltaic systems	H02S 10/30
Photovoltaic [PV] modules including means associated with the PV module to utilise heat energy	H02S 40/44

F24S 90/10

using thermosiphonic circulation

References

References out of a residual place

Examples of places in relation to which this place is residual:

Solar heat collectors using working fluids using internal thermosiphonic	F24S 10/90
circulation	