

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1490

DATE: AUGUST 1, 2023

PROJECT DP12073

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>DEFINITIONS:</b>		
Definitions New:	B64U	subclass
	B64U	10/10, 10/13, 10/20, 10/60, 10/80, 20/73, 20/80, 30/16, 30/21, 30/296, 30/298, 30/299, 40/10, 40/20, 50/34, 60/60, 60/70, 70/50, 70/80, 70/83, 70/87, 70/95, 70/97, 80/50, 80/60
Definitions Modified:	A63H	27/00
	B64C	subclass
	B64C	15/00
	B64D	subclass
	G05D	1/00

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3.  REVISION CONCORDANCE LIST (RCL)

4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5.  CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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## 2. A. DEFINITIONS (New)

### B64U

#### Definition statement

*This place covers:*

Aerial vehicles that do not carry a human operator and which are guided autonomously or are remotely operated or both, using various levels of automated functions. The aerial vehicles can be expendable or recoverable and may carry lethal or non-lethal payloads.

#### References

##### Informative references

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

Toy aircraft; Other flying toys	<a href="#">A63H 27/00</a>
Guided missiles	<a href="#">F42B 15/00</a>

#### Glossary of terms

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

VTOL	Vertical Take-Off and Landing
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### B64U10/10

#### References

##### Informative references

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

Arrangements permitting vertical take-off or landing [VTOL] of aircraft, e.g. using rockets	<a href="#">B64U 70/80</a>
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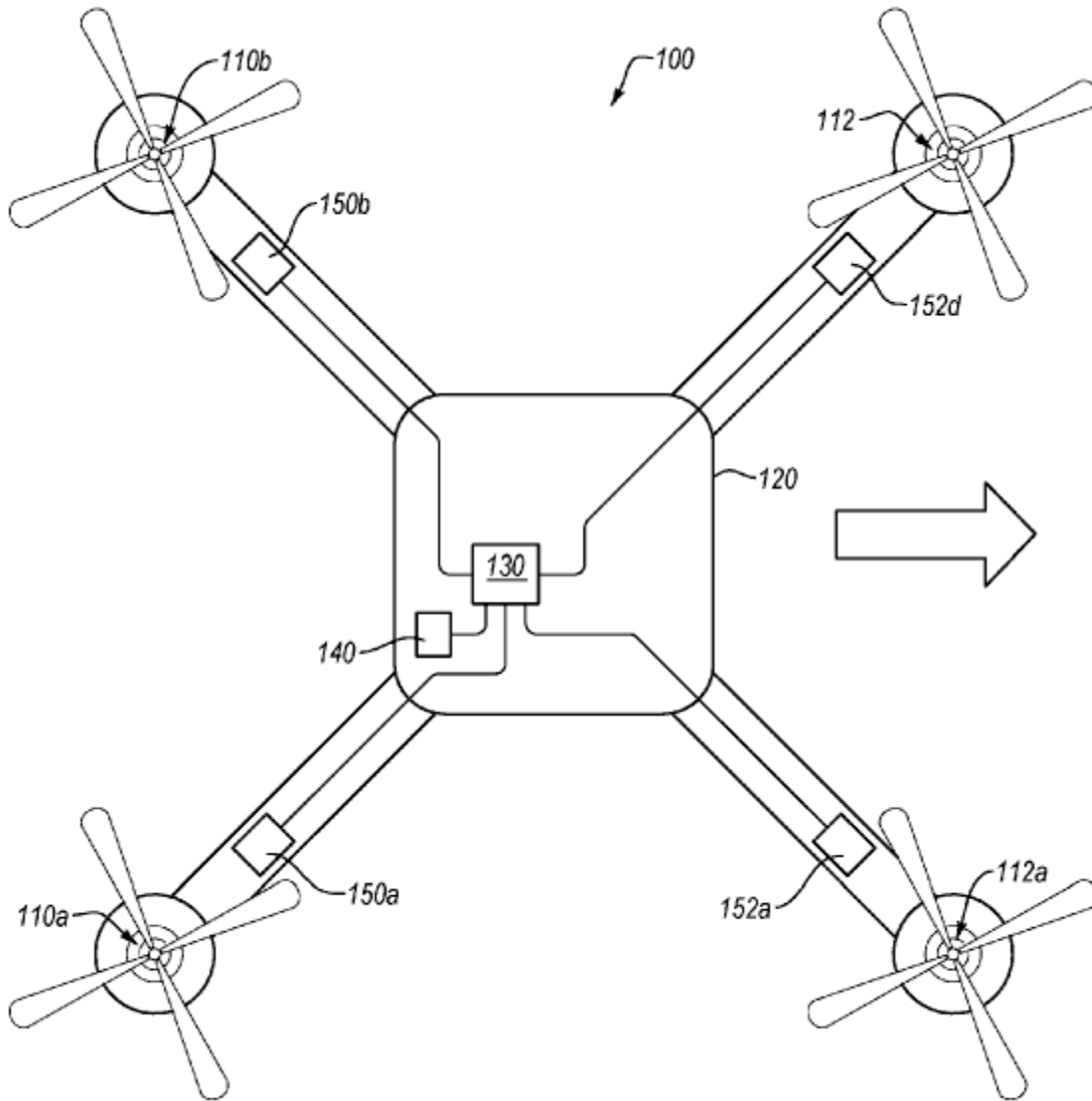
## **B64U10/13**

### **Definition statement**

*This place covers:*

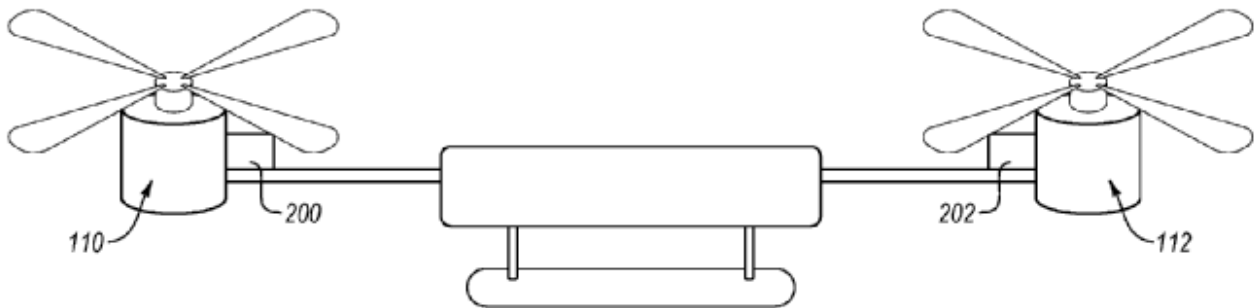
Aircraft generally without a preferential longitudinal axis, having one or more rotors generating a lifting thrust, wherein the lifting thrust is generally vertical, wherein pitch and roll control is normally provided by differential thrust control or a separate force generated outside the propulsors.

Illustrative example of subject matter classified in this place:



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## References

### Informative references

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

Rotorcraft characterised by having shrouded rotors, e.g. flying platforms	<a href="#">B64C 27/20</a>
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## B64U10/20

### Definition statement

*This place covers:*

Vertical take-off and landing (VTOL) aerial vehicles, whereby the vehicles can hover, take-off and land vertically.

## References

### Limiting references

*This place does not cover:*

Flying platforms	<a href="#">B64U 10/13</a>
Helicopters	<a href="#">B64U 10/17</a>

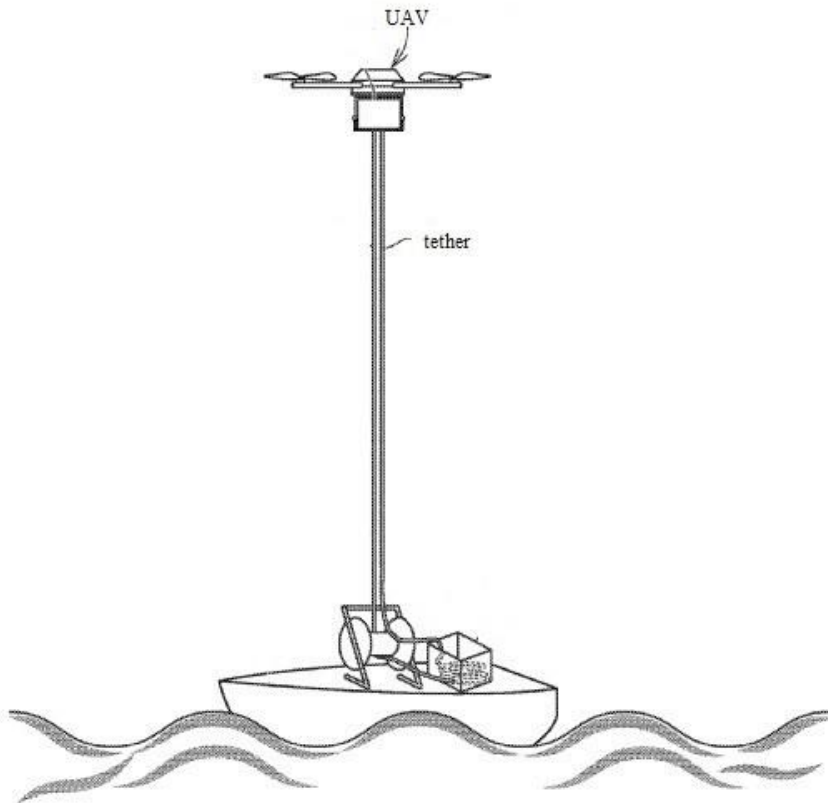
**B64U10/60**

**Definition statement**

*This place covers:*

Unmanned aircraft which are physically linked to a person, the ground or an object at all times while it is flying.

Illustrative example of subject matter classified in this place:



**B64U10/80**

**Definition statement**

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*This place covers:*

UAVs whose size does not exceed 15 cm.

### **Glossary of terms**

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

MAV	Micro-Air Vehicle
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### **B64U20/73**

#### **Definition statement**

*This place covers:*

UAV bodies formed substantially of unitary or single-piece construction.

### **B64U20/80**

#### **References**

#### **Informative references**

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

Supply or distribution of electrical power	<a href="#">B64U 50/30</a>
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### **B64U30/16**

#### **Definition statement**

*This place covers:*

UAVs wherein the wings are moved to different positions along the body, e.g. by sliding or by detaching and reattaching.

#### **References**

#### **Informative references**

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

In-flight adjustment of the base configuration	<a href="#">B64U 40/20</a>
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## **B64U30/21**

### **References**

#### **Informative references**

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

Compound rotorcraft with rotor blades fixed in flight to act as lifting surfaces	<a href="#">B64C 27/24</a>
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## **B64U30/296**

### **References**

#### **Limiting references**

*This place does not cover:*

Foldable or collapsible rotors	<a href="#">B64U 30/293</a>
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#### **Informative references**

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

In-flight adjustment of the base configuration	<a href="#">B64U 40/20</a>
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## **B64U30/298**

### **Definition statement**



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*This place covers:*

Devices usually in the form of a bar with a weight or paddle at each end, mounted to the rotor to aid stability.

## **B64U30/299**

### **Definition statement**

*This place covers:*

Devices arranged around the rotors for protecting the rotors from contacting obstacles during flight. The devices may surround the UAV as well.

### **References**

#### **Limiting references**

*This place does not cover:*

Ducted or shrouded rotors	<a href="#">B64U 30/26</a>
Guards used as ground propulsion	<a href="#">B64U 60/60</a>

#### **Informative references**

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

Rotorcrafts; Rotors peculiar thereto	<a href="#">B64C 27/00</a>
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## **B64U40/10**

### **Definition statement**

*This place covers:*

Mechanisms for actuating adjustable control surfaces or for changing the orientation of rotors, or for changing the pitch of rotor blades, while in flight to control the attitude of the aircraft or control position of the aircraft.

### **References**

#### **Informative references**

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

Controlling flying-control surfaces of aeroplanes and helicopters	<a href="#">B64C 13/00</a>
Controlling rotors of aeroplanes and helicopters	<a href="#">B64C 27/54</a>

## **B64U40/20**

### **Definition statement**

*This place covers:*

Mechanisms for adjusting the position of wings or rotors, or otherwise moving the centre of gravity relative to the body, while in flight.

## **B64U50/34**

### **Definition statement**

*This place covers:*

Arrangements for receiving electrical power from an external source while in flight.

### **References**

### **Limiting references**

*This place does not cover:*

Supply or distribution of electrical power generated by photovoltaics	<a href="#">B64U 50/31</a>
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## **B64U60/60**

### **Definition statement**

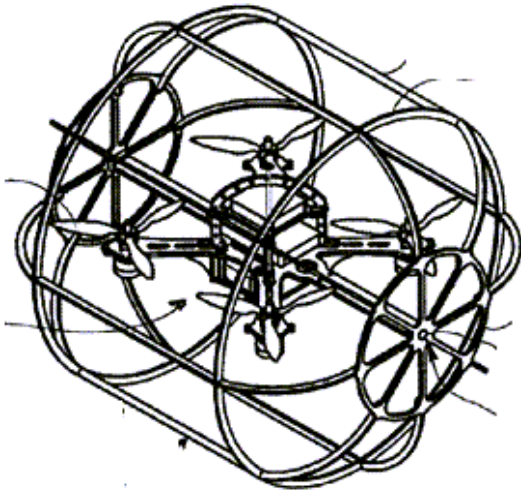
*This place covers:*

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Rolling cages, i.e. free-rolling frames, that at least partially surround the UAV and are connected thereto by at least one rotary joint. UAVs with rolling cages may be capable of movement in flight and on the ground.

Illustrative example of subject matter classified in this place:



## **B64U60/70**

### **Definition statement**

*This place covers:*

Wings, rotor supports or shrouds which may be adjusted in position or orientation to also act as landing gear for the UAV.

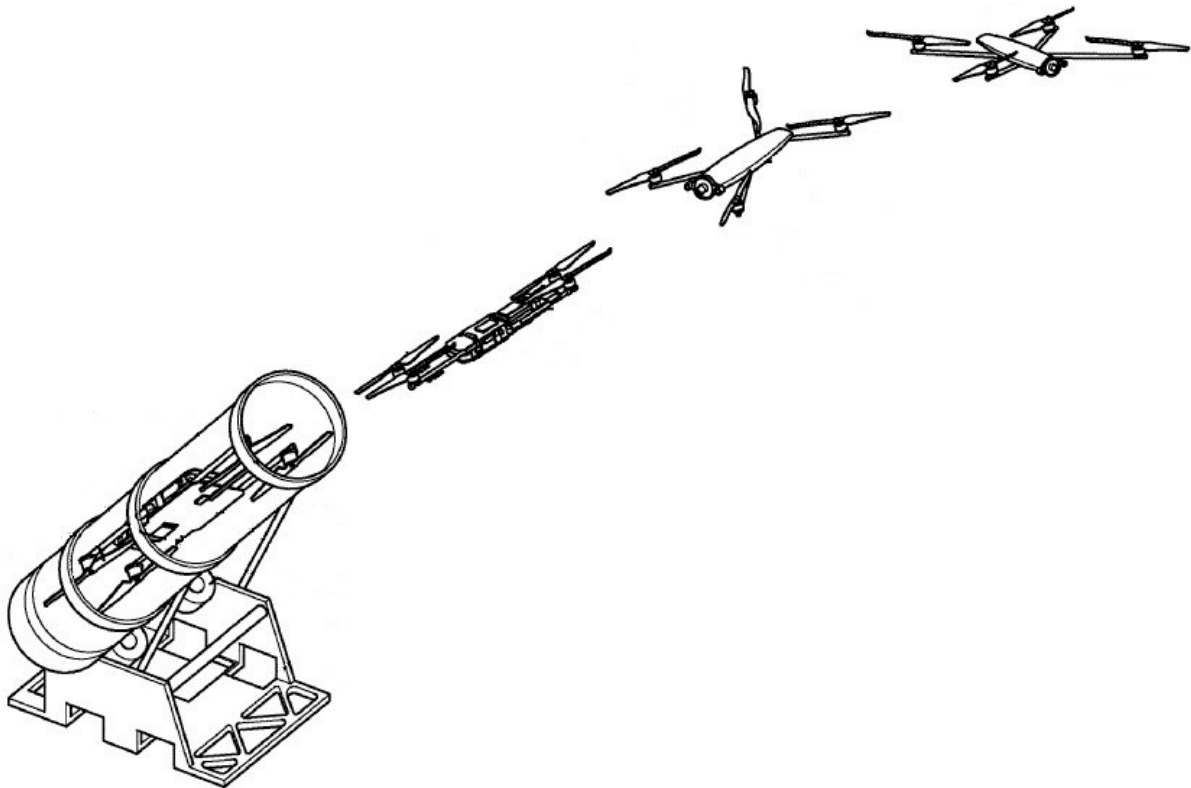
## **B64U70/50**

### **Definition statement**

*This place covers:*

UAVs which are launched or take flight from a storage position within a storage container.

Illustrative example of subject matter classified in this place:



## **B64U70/80**

### **Definition statement**

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*This place covers:*

Arrangements to permit VTOL capability for aircraft not otherwise having the capability, e.g. using rockets or parachutes.

**References**

**Limiting references**

*This place does not cover:*

Rotorcrafts	<a href="#">B64U 10/10</a>
VTOL aircraft	<a href="#">B64U 10/20</a>

**B64U70/83**

**References**

**Informative references**

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

Balloons per se	<a href="#">B64B 1/40</a>
Parachutes per se	<a href="#">B64D 17/00</a>

**B64U70/87**

**References**

**Informative references**

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

Emergency apparatus or devices, not otherwise provided for	<a href="#">B64D 25/00</a>
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**B64U70/95**

**References**

**Informative references**

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

Visual or acoustic landing aids
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B64F 1/18
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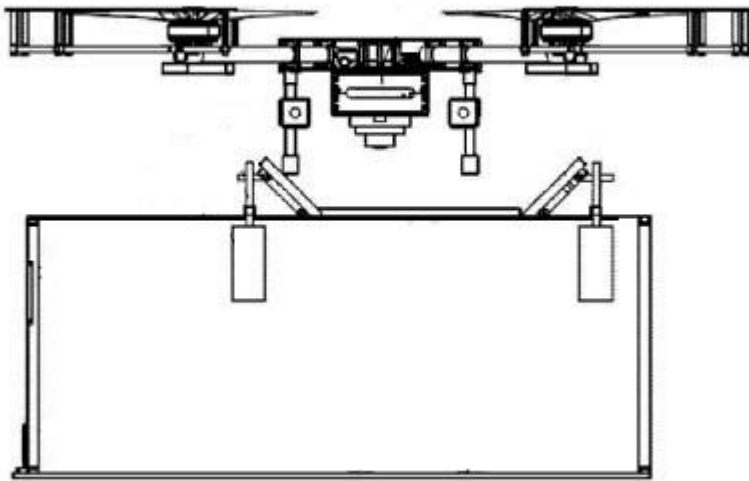
## B64U70/97

### Definition statement

*This place covers:*

Means for physically positioning or orienting the UAV on the platform during landing, e.g. using mechanical means.

Illustrative example of subject matter classified in this place:



### References

#### Informative references

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

Visual or acoustic landing aids
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B64F 1/18
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## **B64U80/50**

### **References**

#### **Informative references**

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

Foldable or collapsible UAVs	<a href="#">B64U 20/50</a>
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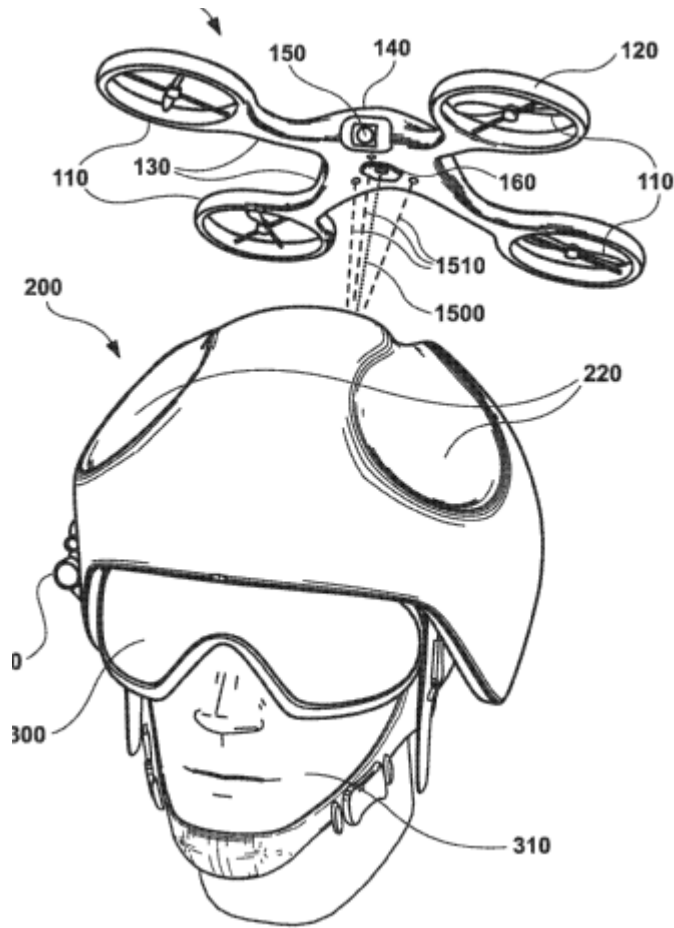
## **B64U80/60**

### **Definition statement**

*This place covers:*

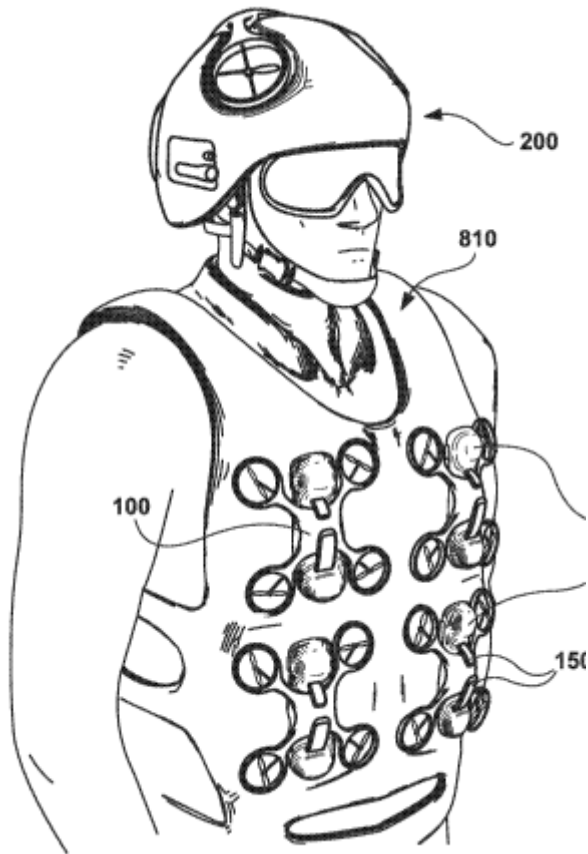
UAVs stored on a person by attaching to apparel, e.g. clothing, or the body itself, e.g. on the wrist.

Illustrative example 1 of subject matter classified in this place:



Illustrative example 2 of subject matter classified in this place:





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## 2. A. DEFINITIONS (Modified)

### A63H27/00

#### Definition statement

Replace: The existing Definition statement with the updated one below.

All aircraft, helicopters, balloons or kites.

#### References:

Insert: The following new Informative references section and table.

#### Informative references

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

Unmanned aerial vehicles [UAV], e.g. drones	B64U
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### B64C

#### References:

#### Informative references:

Insert: The following NEW row to the Informative references table:

Unmanned aerial vehicles [UAV], e.g. drones	B64U
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**B64C15/00**

**References:**

**Informative references:**

Insert: The following NEW row in the Informative references table:

In-flight adjustment of the base configuration of UAVs	B64U 40/20
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**B64D**

**References**

**Informative references**

Insert: The following NEW row in Informative references table:

Equipment for UAVs	B64U
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Delete: The Special rules of classification section and text.

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## 2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
G05D1/00	Application-oriented references	Controlling aircraft B64C 13/00-B64C 15/00	Controlling aircraft B64C 13/00-B64C 15/00, B64U 40/00

**Notes:**

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

*Reminder: Never delete F symbol definitions.*