

## B61G

### COUPLINGS; DRAUGHT AND BUFFING APPLIANCES (vehicle connections in general B60D)

#### Definition statement

*This subclass/group covers:*

Devices and methods for connecting rolling stock in a train and to cushion impact of the railway vehicles against each other.

#### Informative references

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

Vehicle connections in general	<a href="#">B60D</a>
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## B61G 1/00

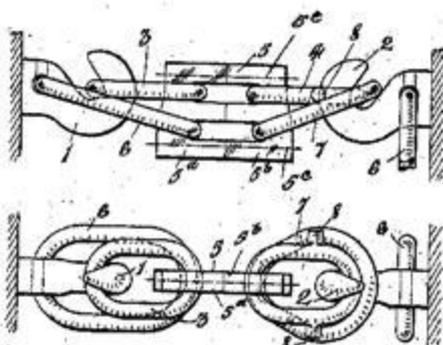
### Couplings comprising interengaging parts of different shape or form and having links, bars, pins, shackles, or hooks as coupling means

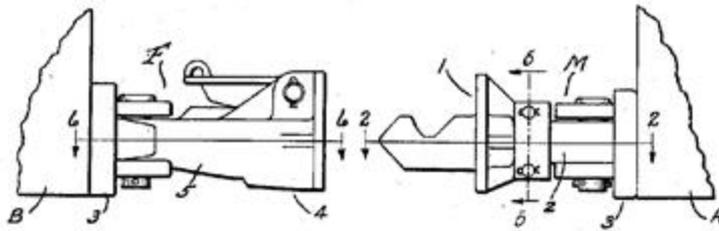
#### Definition statement

*This subclass/group covers:*

Couplings having interengaging parts having different shape wherein the couplings mounted on adjacent vehicles could be of same shape, but connected together by parts of different shape, e.g. bars or shackles .

Following drawings show two examples:





## References relevant to classification in this group

*This subclass/group does not cover:*

Couplings for matching couplings of different types	<a href="#">B61G 5/04</a>
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## B61G 3/00

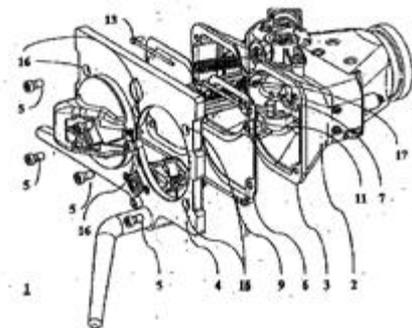
**Couplings comprising mating parts of similar shape or form which can be coupled without the use of any additional element or elements**

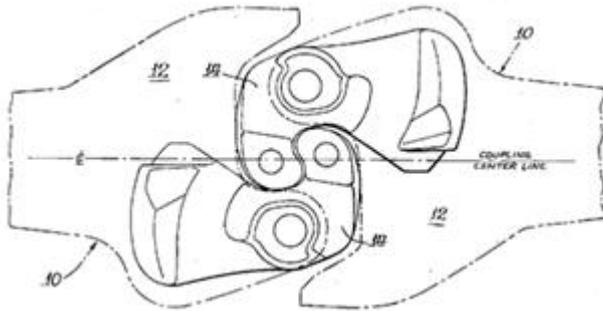
### Definition statement

*This subclass/group covers:*

The titles of this group are self-explanatory and do not need to be more specified.

Following drawings show two examples:





## B61G 5/00

**Couplings for special purposes not otherwise provided for**

### Definition statement

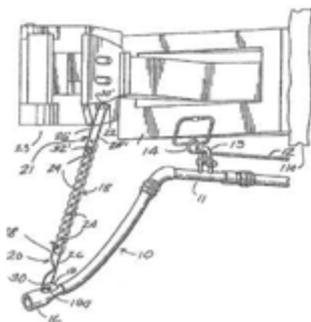
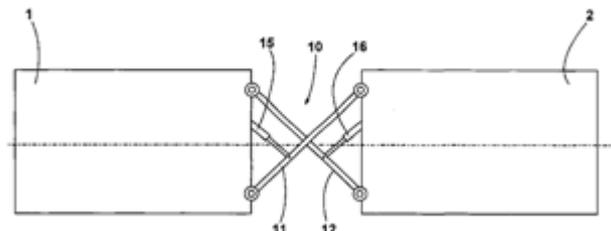
*This subclass/group covers:*

The titles of this group are self-explanatory and do not need to be more specified.

Typical examples are:

- Automatic car coupler.
- Transitional coupling for matching couplings of different types.
- Air hose support clip to prevent lateral loading.
- Centering device for automatic electrical couplings.
- Visual coupling indicator.

Following drawings show two examples:



## Informative references

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

Pivotal connections	<a href="#">F16C 11/00</a>
Gangways for couled vehicles	<a href="#">B60D 5/00</a>
Arrangements of electric cables or lines between relatively movable parts	<a href="#">H02G 11/00</a>
Flexible line connectors	<a href="#">H01R 35/02</a>

## B61G 5/02

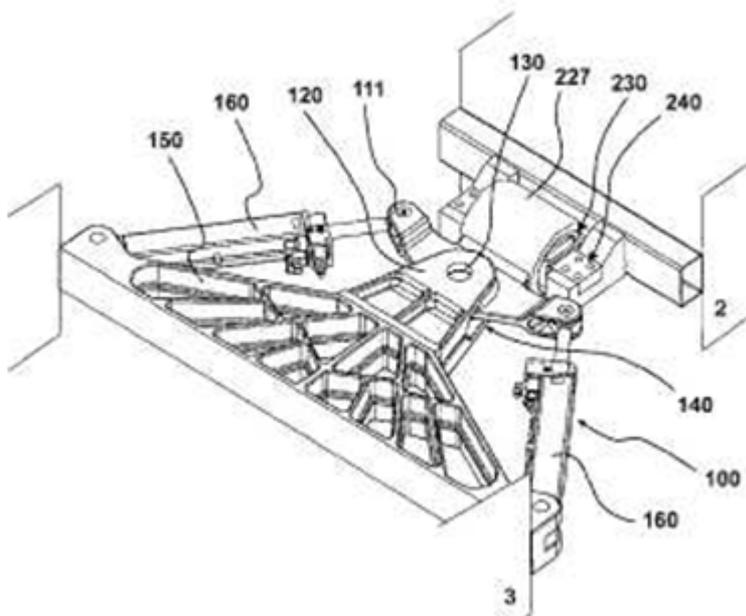
for coupling articulated trains, locomotives and tenders or the bogies of a vehicle; Coupling by means of a single coupling bar; Couplings preventing or limiting relative lateral movement of vehicles

### Definition statement

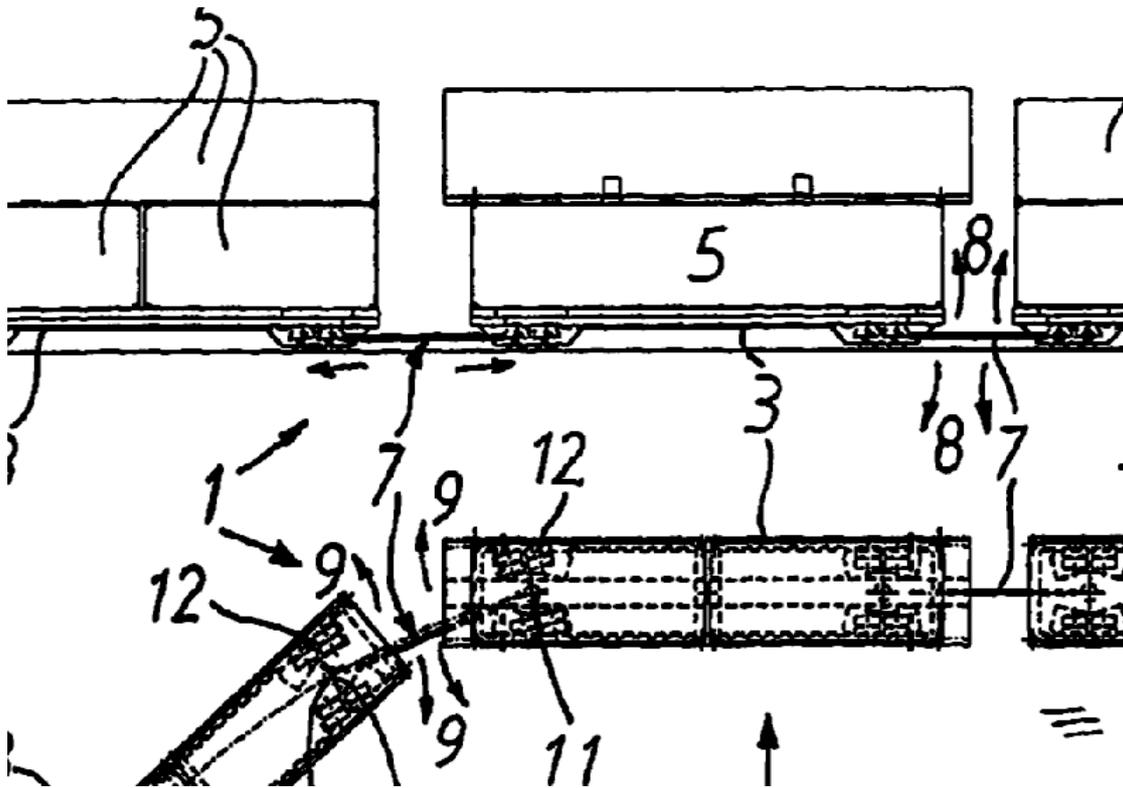
*This subclass/group covers:*

Examples:

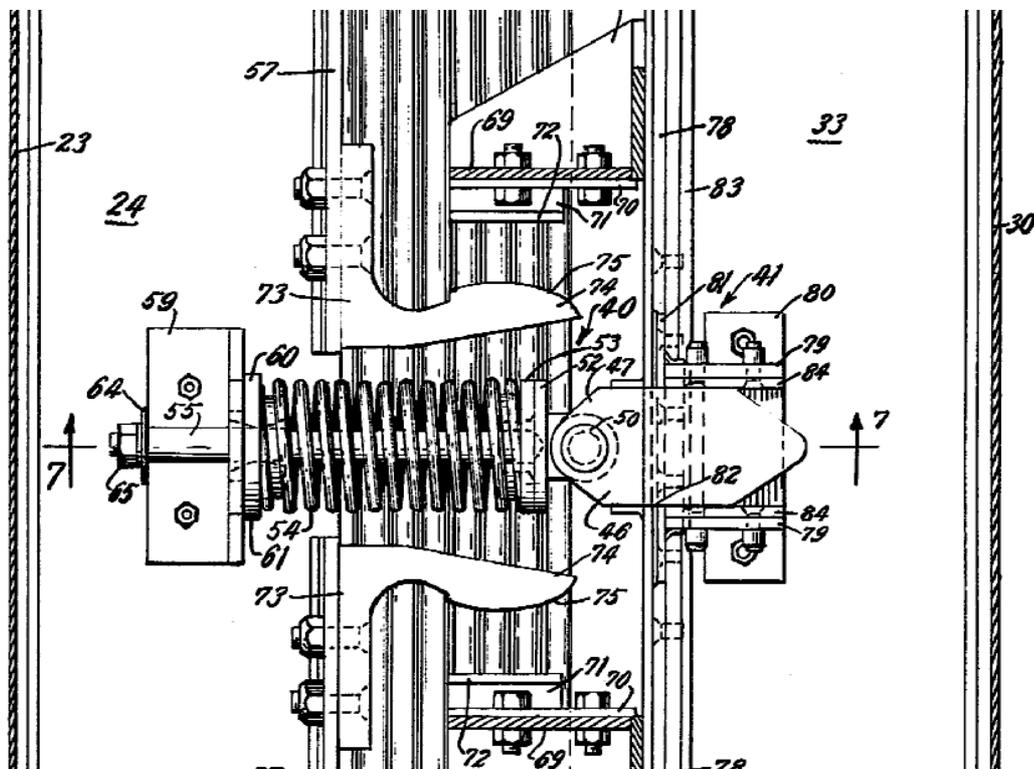
Coupling between two articulated vehicle parts



Coupling by means of a single coupling bar



A convex surface 75 adapted for contact with a plate 72 to limit lateral movement



## Informative references

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

Construction details of vehicle bodies	<a href="#">B61D 17/20</a>
Gangways for coupled vehicles, e.g. of concertina type	<a href="#">B60D 5/00</a>

## B61G 7/00

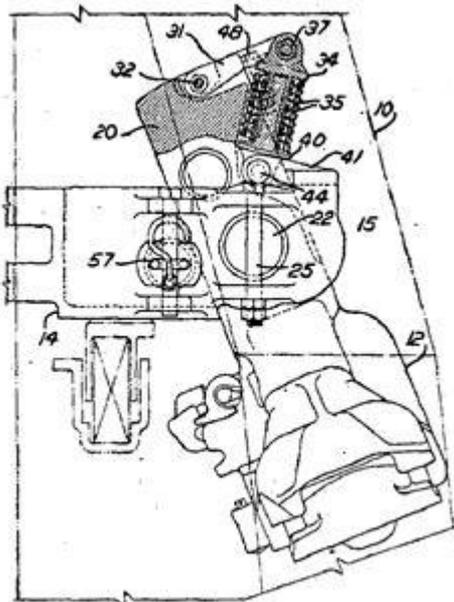
### Details or accessories

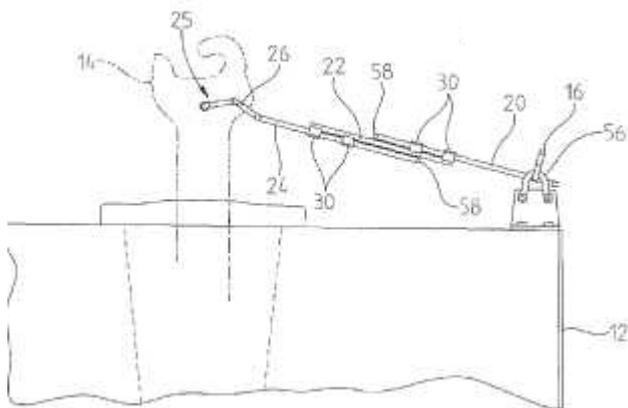
### Definition statement

*This subclass/group covers:*

The titles of this group are self-explanatory and do not need to be more specified.

Following drawings show two examples (US2584486 and US7686177):





**Informative references**

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

Hand tools	<a href="#">B25B 27/00</a>
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**B61G 7/10**

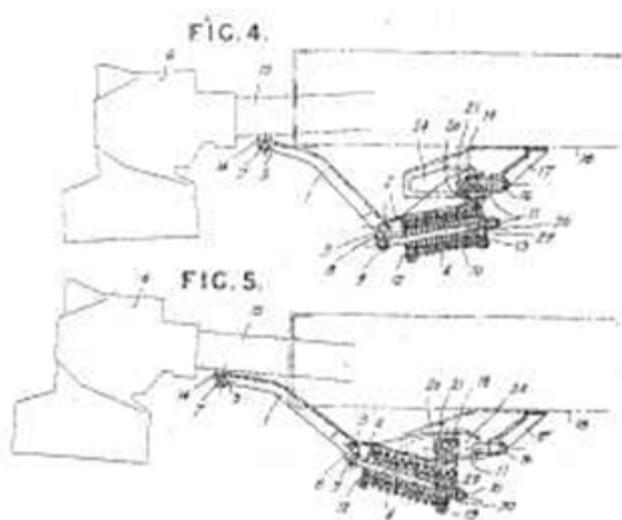
**Mounting of the couplings on the vehicle**

**Definition statement**

*This subclass/group covers:*

Arrangement of coupling in relation to vehicle body or under-frame, and mounting of coupling on vehicle body.

Example:



## B61G 9/00

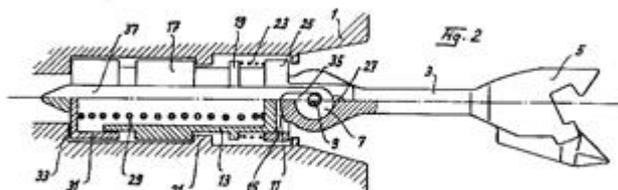
### Draw-gear

#### Definition statement

*This subclass/group covers:*

Details of the structure that links the couplings to the end of the wagon.

Following drawing shows one example;



## B61G 11/00

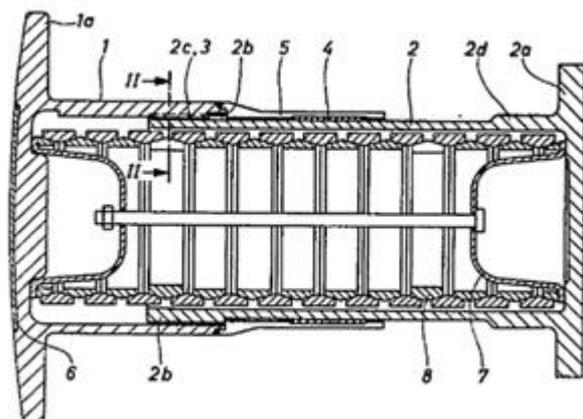
### Buffers (springs F16F)

#### Definition statement

*This subclass/group covers:*

The titles of this group are self-explanatory and do not need to be more specified.

Following drawing shows one example:



#### References relevant to classification in this group

*This subclass/group does not cover:*

Manufacturing buffers	<a href="#">B23P 15/20</a>
Dampers	<a href="#">F16F</a>

Dampers using plastic deformation	<a href="#">B61F 7/12</a>
Buffer for cranes	<a href="#">B66C 7/16</a>

## B61G 11/16

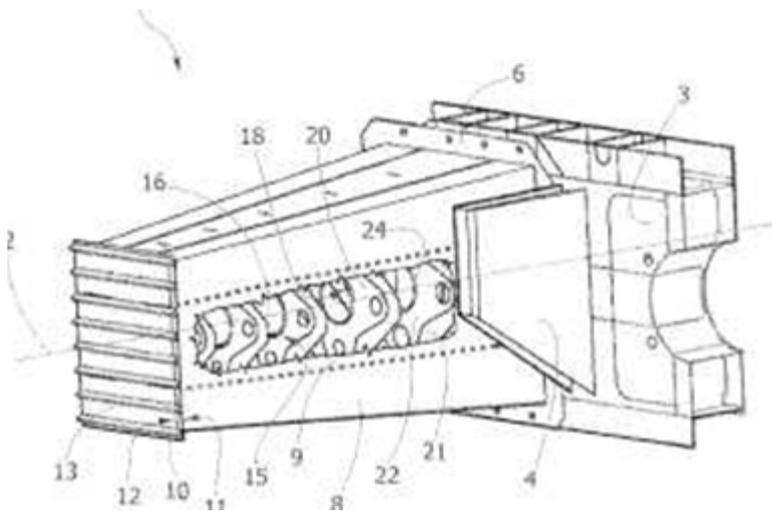
**absorbing shocks by permanent deformation of buffer element**

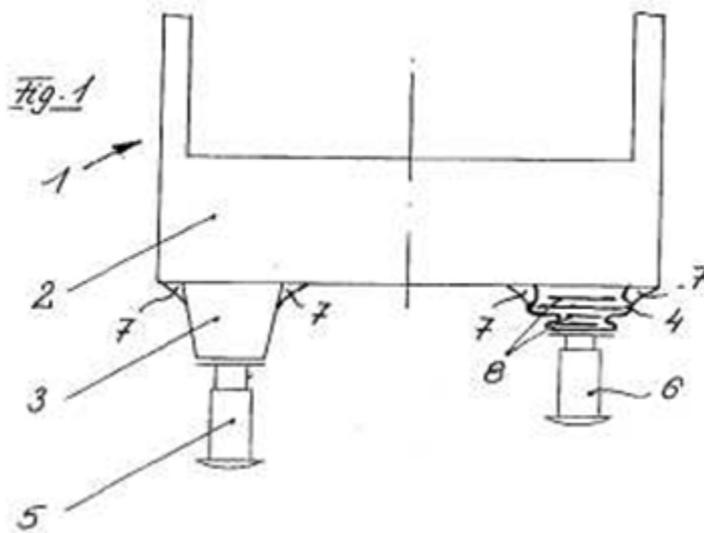
### Definition statement

*This subclass/group covers:*

Examples:

Energy consumption element or collapsible element for absorbing energy in case of collision.





### Informative references

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

Bumpers or like collision guards	<a href="#">B61F 19/04</a>
Buffer cars; Arrangements or construction of railway vehicles for protecting them in case of collisions	<a href="#">B61D 15/06</a>