# **A22C**

PROCESSING MEAT, POULTRY, OR FISH (preserving <u>A23B</u>; obtaining protein compositions for foodstuffs <u>A23J 1/00</u>; fish, meat or poultry preparations <u>A23L</u>; disintegrating, e.g. chopping meat, <u>B02C 18/00</u>; preparation of proteins <u>C07K 1/00</u>)

# Relationships with other classification places

Preserving foodstuffs A23B

Fish, meat or poultry preparations A23L

Disintegrating, e.g. chopping meat <u>B02C 18/00</u>

#### References

# Limiting references

This place does not cover:

Obtaining protein compositions for foodstuffs	A23J 1/00
Preparation of proteins	<u>C07K 1/00</u>

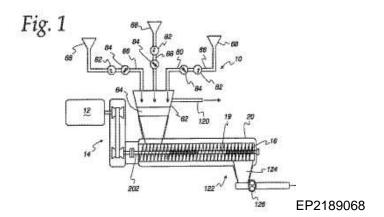
# A22C 5/00

# Apparatus for mixing meat, sausage-meat, or meat products (mixing in general B01F)

#### **Definition statement**

This place covers:

Meat mixers meant for obtaining a meat mixture for its further processing



# Relationships with other classification places

Mixing in general **B01F** 

# A22C 7/00

Apparatus for pounding, forming, or pressing meat, sausage-meat, or meat products {(meat patty moulding devices for domestic use A47J 43/20; ham boilers A47J 27/20)}

# **Definition statement**

This place covers:

Apparatuses for pressing and moulding meat.

# Relationships with other classification places

Presses B30B

Shaping or working of foodstuffs A23P

#### References

# Limiting references

This place does not cover:

Ham boilers	A47J 27/20
Meat patty moulding devices for domestic use	A47J 43/20

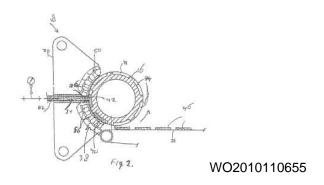
#### Informative references

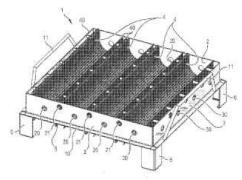
Attention is drawn to the following places, which may be of interest for search:

Packaging meat	B65B 25/065
Stackable polygonal containers	B65D 5/001

# Special rules of classification

- apparatuses for making multi-layered meat products <u>A22C 7/0007</u>
- for making meat balls A22C 7/0015
- pressing means A22C 7/0023: including containers in which meat is pressed, containers for shaping and boiling ham, stackable containers as well as demoulding means
- apparatuses with worms or other rotary mounted members A22C 7/0092





FR2933573

# A22C 9/00

Apparatus for tenderising meat, e.g. ham {(tenderising chemically <u>A23L 13/00</u>, <u>A23L 13/70</u>)}

# **Definition statement**

This place covers:

For treating, tenderising or flavouring meat.

# References

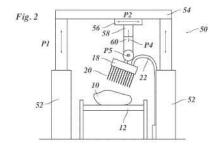
# Limiting references

This place does not cover:

Processing meat by injection	A22C 17/0053
Tenderising chemically	A23L 13/00
Tenderised or flavoured meat pieces e.g. by injecting	A23L 13/70

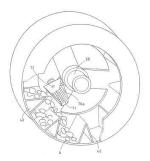
# **Special rules of classification**

• by injection <u>A22C 9/001</u>



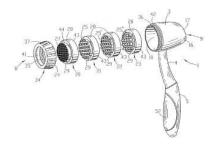
#### WO2010069772

- by electric treatment A22C 9/002
- by massaging, e.g. with rotating drums or tumblers A22C 9/004



# US2008051020

• by beating A22C 9/007



#### US2006019589

• by piercing <u>A22C 9/008</u>

# A22C 11/00

Sausage making {(chemical aspects <u>A23L 13/00</u>); Apparatus for handling or conveying sausage products during manufacture}

#### **Definition statement**

This place covers:

All machinery and processes related to sausage manufacturing

# References

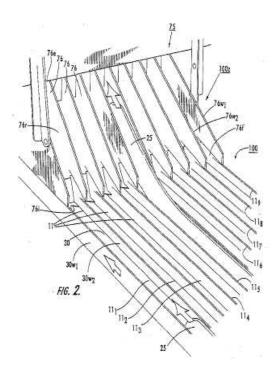
#### Limiting references

This place does not cover:

Conveying hanging sausages	A22C 15/001
Chemical aspects of sausage making	A23L 13/00

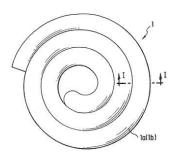
# Special rules of classification

• Conveying sausages in a horizontal position



# US2007080047

• Manufacturing sausages with a predetermined shape



US6187362

# A22C 11/001

# {Machines for making skinless sausages, e.g. Frankfurters, Wieners}

# **Definition statement**

This place covers:

Machines for making skinless sausages

# **Special rules of classification**

- removing casings from sausages during manufacture A22C 11/003
- netting sausages and meat A22C 11/005

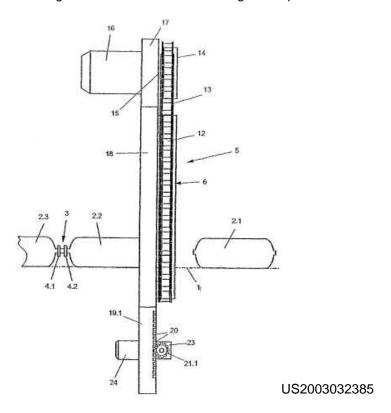
# A22C 11/006

# {Separating linked sausages}

# **Definition statement**

This place covers:

Dividing a continuous strand of sausages into portions



# A22C 11/02

Sausage filling or stuffing machines {(enclosing material in preformed tubular webs <u>B65B 9/10)</u>}

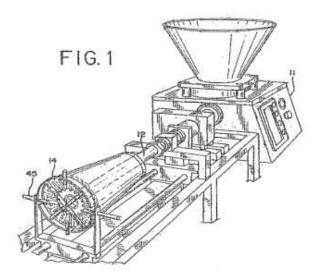
# **Definition statement**

This place covers:

Sausage filling or stuffing machines, parts thereof.

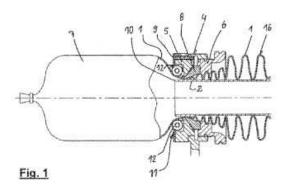
# Special rules of classification

• Stuffing horn assemblies, including devices with multiple interchangeable stuffing horns (e.g. magazine arrangements) <u>A22C 11/0209</u>



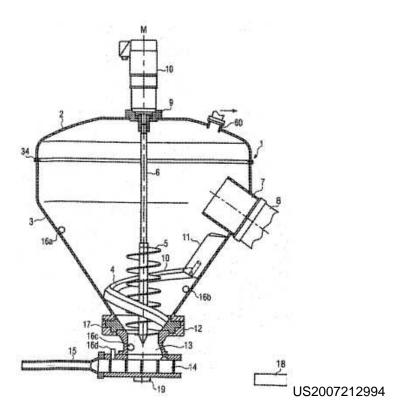
# EP1726211

- Supplying casings to the stuffing device A22C 11/0227
- Controlling devices for the stuffing process: sizing and braking means as well as means for detecting casing depletion



# EP2215911

- Making sausages with at least one flat end A22C 11/0281
- Stuffing devices with coating or lubricating means A22C 11/029
- With a mechanical or hydraulic piston for pushing the stuffing material <u>A22C 11/04</u> and <u>A22C 11/06</u>
- the stuffing material being pushed by a rotary pressing member A22C 11/08



# A22C 11/10

Apparatus for twisting {or linking} sausages {(subdividing filled flexible tubes to form packages, involving displacement of contents  $\frac{B65B\ 9/12}{B65B\ 51/26}$ }

# **Definition statement**

This place covers:

Subdividing a continuous tubular sausage casing into a strand of linked individual sausages.

# References

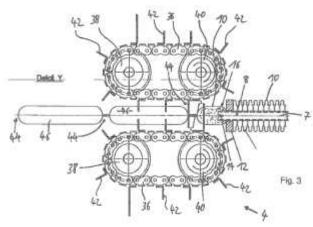
# Limiting references

This place does not cover:

	,
Subdividing filled tubes by sealing or securing	B65B 9/12

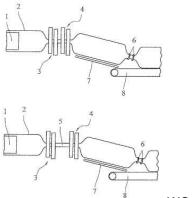
# Special rules of classification

 Apparatuses with two rotary members comprising dividing elements which cooperate with each other



EP1095569

• Apparatuses dividing the sausage string by means of shear or blade elements, also with displacing movement that creates a narrow point free of meat in the links



WO2007000301

# A22C 11/12

Apparatus for tying sausage skins (; Clipping sausage skins (applying clips or binding material to package folds or closures, e.g. to twisted bag necks B65B 51/04, B65B 51/08)}

# **Definition statement**

This place covers:

Apparatuses for tying or clipping the links between individual sausages in a continuous sausage strand

#### References

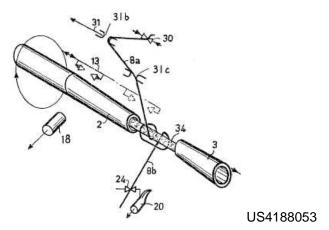
# Limiting references

This place does not cover:

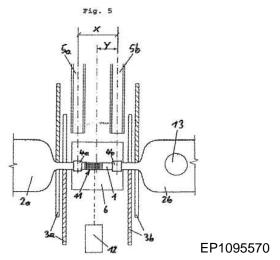
Stapling machines	B27F 7/17
Applying clips to close bag necks	B65B 51/04, B65B 51/08
Metal clips and staples	B65D 33/1641

# Special rules of classification

• by means of tying, forming knots



• by means of clipping, also including means for the removal of the clips



• creating a suspension loop

# A22C 13/00

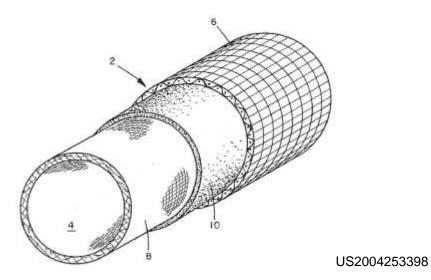
# Sausage casings {(made of animal intestines A22C 17/14)}

# **Definition statement**

This place covers:

Sausage casings and their manufacturing:

- apparatus for making sausage casings
- chemical composition of sausage casings
- Chemical treatment of natural gut
- Shirring of sausage casings



#### References

# Limiting references

This place does not cover:

Made of animal intestines	A22C 17/14
Protein compositions for foodstuffs	<u>A23J</u>
Devices for treating the surfaces of sheets, webs, etc. in connection with printing	B41F 23/00
Packaging foodstuff	B65D 81/34

#### Informative references

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

	5005
Layered products	<u>B32B</u>
,	

# A22C 15/00

Apparatus for hanging-up meat or sausages {(filling and conveying sausage products during manufacture A22C 11/00; transport through slaughterhouses A22B 7/001; poultry shackles A22C 21/0007; conveying poultry A22C 21/0053)}

#### **Definition statement**

This place covers:

Means for hanging-up meat or sausages for transportation or for storage

# References

#### Limiting references

This place does not cover:

Horizontal conveying of sausages	A22C 11/00
Poultry shackles	A22C 21/0007
Conveying poultry	A22C 21/0053
Spreaders for cattle	A22B 5/06

Transport within slaughterhouses	A22B 7/001
Hooks and gambrels for slaughterhouses	A22B 7/001

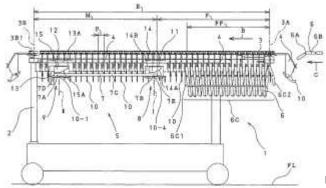
#### Informative references

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

Devices for transferring articles between conveyors	B65G 47/61
_	

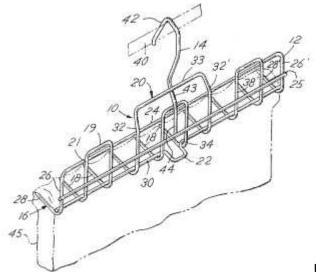
# **Special rules of classification**

 Adapted for hanging or conveying several sausages or strips of meat (e.g. for suspending sausages from a stick) A22C 15/001



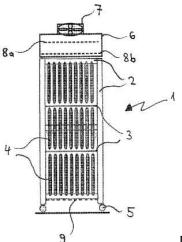
US2003096568

Hooks for meat or hams (e.g. with hooks or cords penetrating the piece of meat, bacon hangers)
 A22C 15/003



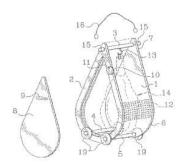
US5938522

• Racks for storing or smoking suspended meat A22C 15/007



DE102007048481

• Cages for suspending hams, meat or sausages A22C 15/008



FR2828067

# A22C 17/00

# Other devices for processing meat or bones

# References

# Limiting references

This place does not cover:

Holding fish while processing	A22C 25/06
Marking animals	A01K 11/00
Skinning instruments for animal carcasses	A22B 5/16
Cleaning the stomach of slaughtered animals	A22B 5/18
Holding meat for carving	A47J 43/18
Packaging specially shaped pieces of meat	B65B 25/06
Packaging slices of meat, poultry or fish	B65B 25/06
Labelling	<u>B65C</u>
Treating offal	<u>C11B</u>
Splitting intestines	C14B 21/00

#### Informative references

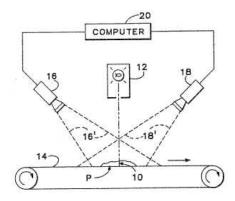
Attention is drawn to the following places, which may be of interest for search:

Collecting or arranging articles in groups

B07C 5/38

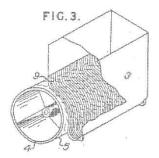
# Special rules of classification

- Cutting or shaping meat A22C 17/0006
- Deboning meat A22C 17/004
- Processing meat by injection A22C 17/0053
- Putting meat on skewers A22C 17/006
- Using visual recognition, X-rays, ultrasounds, or other contactless means to determine quality or size of a potion of meat <u>A22C 17/0073</u>



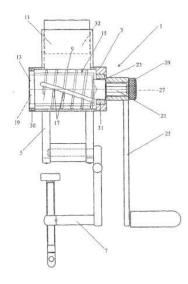
#### US5324228

- Handling, transporting or packaging, pieces of meat A22C 17/0093
- Holding meat or bones during cutting A22C 17/02
- Bone cleaning devices, separating meat from bone <u>A22C 17/04</u>



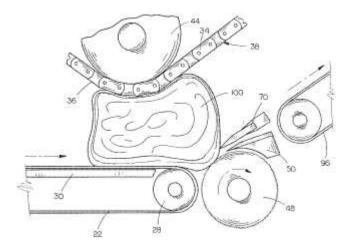
#### GB874786

Bone shears, bone crushers, bone milling machines <u>A22C 17/06</u>



# WO9834491

- Cleaning, washing meat or sausages A22C 17/08
- Marking meat or sausages A22C 17/10
- Apparatus for cutting off rind, removing fat from meat cuts A22C 17/12



# US2003008607

- Working-up of animal intestines, apparatus for cutting intestines or pulling intestines to pieces.
  Sausage casings made of animal intestines <u>A22C 17/14</u>
- Cleaning intestines, removing fat or slime from intestines A22C 17/16

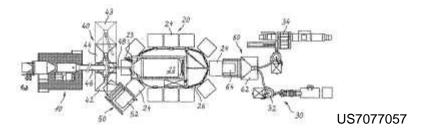
# A22C 18/00

Plants, factories, or the like for processing meat (for processing poultry only A22C 21/00; for processing fish only A22C 25/00)

#### **Definition statement**

This place covers:

Complete integral processes for processing meat and plants for their implementation



#### References

# Limiting references

This place does not cover:

Processing poultry	A22C 21/00
Processing fish	A22C 25/00

# A22C 21/00

# **Processing poultry**

# **Definition statement**

This place covers:

All types of machinery and operations performed specifically on poultry:

#### References

# Limiting references

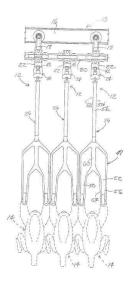
This place does not cover:

Killing poultry	A22B 3/086
Eviscerating carcasses	A22B 5/0005
Deboning carcasses in general	A22B 5/0035
Slaughterhouse gambrels and hooks	A22B 7/001

# Special rules of classification

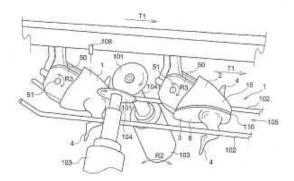
Class <u>A22C 21/0015</u> is redundant with class <u>A22B 3/086</u>. Both classes are envisaged to merge together.

• poultry shackles for holding and suspending poultry while it is conveyed along the process line of a slaughterhouse A22C 21/0007



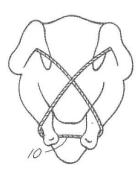
# US2003124965

- Killing poultry entering the processing machine: slaughtering devices integrated in the processing line, which are part of a continuous process <u>A22C 21/0015</u>
- Cutting and dividing operations on poultry <u>A22C 21/0023</u>, filleting, extracting, cutting or shaping poultry fillets <u>A22C 21/003</u>



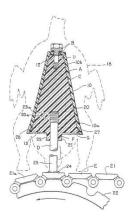
#### WO2007067052

• Trussing poultry <u>A22C 21/0038</u>, making poultry keep its shape for being further processed (e.g. for being cooked evenly)



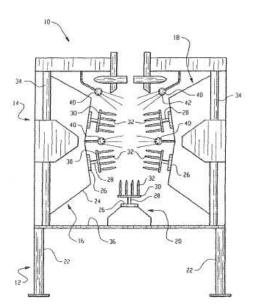
# US5816905

• Support devices for poultry A22C 21/0046



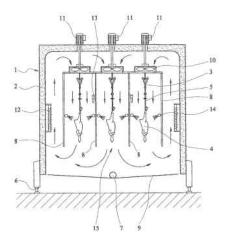
# US4716624

- Transferring or conveying devices for poultry A22C 21/0053
- Cleaning or disinfecting poultry <u>A22C 21/0061</u>
- Deboning poultry A22C 21/0069
- Skinning poultry <u>A22C 21/0092</u> Plucking mechanisms for poultry <u>A22C 21/02</u>, defeathering poultry



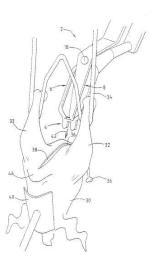
# US2004147211

• Scalding, singeing, waxing, or dewaxing poultry A22C 21/04



#### EP1460902

• Eviscerating poultry A22C 21/06: Hand tools, removing tendons



WO0152659

# **Glossary of terms**

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

	tying and/or restraining a poultry carcass with twine, cord or other elements so that it can be further processed (e.g. in order to facilitate packaging or enable even cooking)
Plucking	pulling the feathers from a bird's carcass

# A22C 25/00

Processing fish{; Curing of fish; Stunning of fish by electric current; Investigating fish by optical means (slaughtering fish A22B 3/08)}

# **Definition statement**

This place covers:

All types of machinery and operation performed specifically on fish, also processing cephalopods (octopus, squid, cuttlefish...):

# References

# Limiting references

This place does not cover:

Cutting or shaping meat	A22C 17/0006
Slaughtering fish	A22B 3/083
Fish powder, agglomerates or flakes	A23L 17/10
Investigating fish	G01N 33/12

# Informative references

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

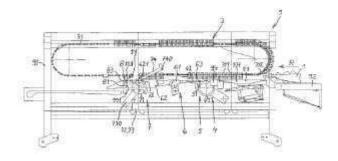
Orientating articles during conveying	<u>A23J 1/00</u>
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# Special rules of classification

Classes A22C 25/14 and A22C 25/14 may result redundant. It is envisaged to merge them both.

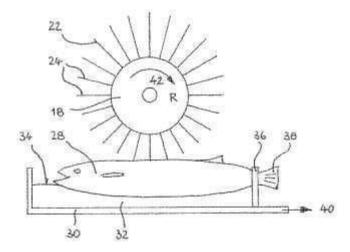
 Beheading, cleaning and eviscerating fish combined with removing fishbones, skinning and filleting <u>A22C 25/14</u>. Hand tools therefor

#### A22C 25/006



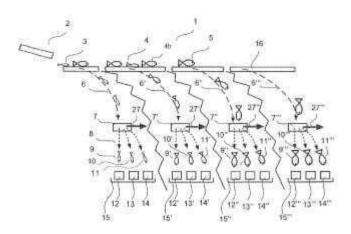
# DE10341941

• Washing or descaling fish A22C 25/02. Hand tools therefor A22C 25/025



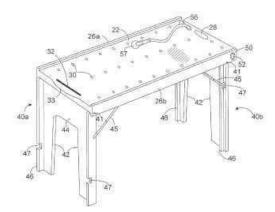
#### DE10045971

• Sorting fish A22C 25/04. Grading fish, separating fish from ice.



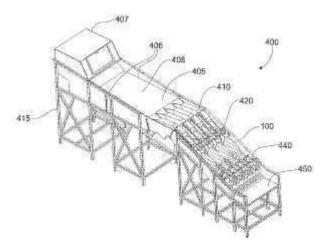
# EP1458500

• Work tables, fish holding devices A22C 25/06, supports for working on fish



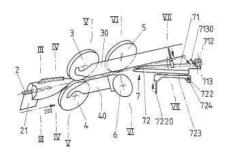
#### US2011048288

• Conveying fish. Holding and guiding fish while being conveyed <u>A22C 25/08</u>. Adapting conveyors to the size of fish.



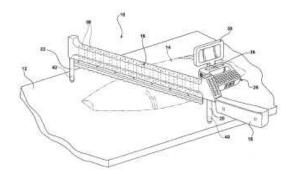
# GB2449203

- Threading fish on strings A22C 25/10
- Arranging fish according to the position of head and tail A22C 25/12
- Beheading, eviscerating, or cleaning fish <u>A22C 25/14</u>. Not in combination with skinning, deboning or filleting. Also including evisceration by means of suction and extracting roe from fish
- Removing fish bones, filleting fish <u>A22C 25/16</u>, removing fins <u>A22C 25/163</u>, removing pinbones from fish fillets.



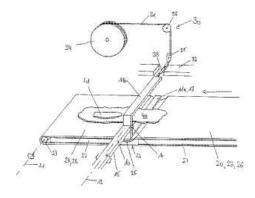
# WO0203807

- Skinning fish A22C 25/17
- Cutting fish into portions A22C 25/18. Hand tools therefor A22C 25/185



# US2006155509

- Shredding, cutting fish into cubes, flaking A22C 25/20, obtaining fish pulp.
- Fish rolling apparatus A22C 25/22



DE102009019558

# **Glossary of terms**

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

Roe	the mass of eggs contained in the ovaries of a female fish or
	shellfish, especially when ripe and used as food

# A22C 29/00

Processing shellfish {or bivalves}, e.g. oysters, lobsters; {Devices therefor, e.g. claw locks, claw crushers, grading devices; Processing lines}

# **Definition statement**

This place covers:

Processing shellfish, bivalves, hard-shelled molluscs and crustaceans

#### References

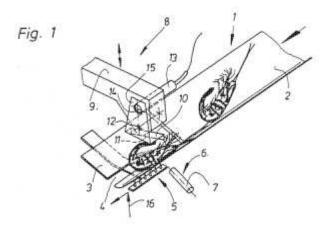
#### Limiting references

This place does not cover:

Processing cephalopods	A22C 25/00
Shellfish preparations	A23L 17/40
Oyster knives with openers	A47G 21/06

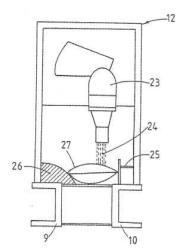
# Special rules of classification

• Processing crustaceans <u>A22C 29/02</u>, grading, beheading, conveying, deveining shrimps and prawns, shelling and peeling crustaceans. Hand tools therefor <u>A22C 29/027</u>.



#### GB2197179

• Processing molluscs <u>A22C 29/02</u>, grading, cleaning, shucking, and/or opening hard-shelled molluscs, whether bivalve or not.



WO9400022