

# CPC

**A01F**

<b>1/00</b>	<b>Stationary apparatus or hand tools for forming or binding straw, hay or the like into bundles</b> ( <a href="#">baling apparatus or presses A01F 13/00, A01F 15/00</a> ; <a href="#">mobile binders for use in the field A01D 37/00, A01D 39/00</a> )	12/26	<ul style="list-style-type: none"> <li>• Multi-part threshing concaves</li> </ul>
1/02	<ul style="list-style-type: none"> <li>• Hand-operated tools</li> </ul>	12/28	<ul style="list-style-type: none"> <li>• Devices for adjusting the concaves</li> </ul>
1/04	<ul style="list-style-type: none"> <li>• Fastening or tying devices</li> </ul>	12/30	<ul style="list-style-type: none"> <li>• Straw separators {, i.e. <a href="#">straw walkers</a>, for separating residual grain from the straw (<a href="#">grain cleaning A01F 12/44</a>)}</li> </ul>
1/06	<ul style="list-style-type: none"> <li>• Ties for bundles</li> </ul>	12/305	<ul style="list-style-type: none"> <li>• {combined with additional grain extracting means}</li> </ul>
<b>3/00</b>	<b>Hand-operated implements for cutting-up straw, hay or the like</b> ( <a href="#">mechanically-driven straw cutters A01F 29/00</a> ; <a href="#">cutting in general B26</a> )	12/32	<ul style="list-style-type: none"> <li>• with shaker screens or sieves</li> </ul>
<b>Threshing</b>		12/34	<ul style="list-style-type: none"> <li>• Sieve elements; Linings for shakers</li> </ul>
<b>5/00</b>	<b>Hand-operated implements for threshing</b>	12/36	<ul style="list-style-type: none"> <li>• Sieve elements specially adapted for handling short straw</li> </ul>
<b>7/00</b>	<b>Threshing apparatus</b>	12/38	<ul style="list-style-type: none"> <li>• with juxtaposed and independently-moved shaker bars or the like</li> </ul>
7/02	<ul style="list-style-type: none"> <li>• with rotating tools (<a href="#">threshing cylinders or concaves A01F 12/18</a>)</li> </ul>	12/385	<ul style="list-style-type: none"> <li>• with endless straw-conveying surface</li> </ul>
7/04	<ul style="list-style-type: none"> <li>• with axles transverse to the feeding direction</li> </ul>	12/39	<ul style="list-style-type: none"> <li>• with straw carriers in the form of rotors or drums</li> </ul>
7/06	<ul style="list-style-type: none"> <li>• with axles in line with the feeding direction; {<a href="#">Axial threshing machines</a>}</li> </ul>	12/395	<ul style="list-style-type: none"> <li>• Conical or cylindrical straw separators with internal working surface</li> </ul>
7/062	<ul style="list-style-type: none"> <li>• {with a rotating cage}</li> </ul>	12/40	<ul style="list-style-type: none"> <li>• Arrangements of straw crushers or cutters</li> </ul>
7/065	<ul style="list-style-type: none"> <li>• {with cage sweep mechanisms}</li> </ul>	12/42	<ul style="list-style-type: none"> <li>• Apparatus for removing awns from the grain</li> </ul>
7/067	<ul style="list-style-type: none"> <li>• {with material-flow influencing means}</li> </ul>	12/44	<ul style="list-style-type: none"> <li>• Grain cleaners; Grain separators</li> </ul>
7/70	<ul style="list-style-type: none"> <li>• with flails</li> </ul>	12/442	<ul style="list-style-type: none"> <li>• {<a href="#">Rotary cleaners</a>}</li> </ul>
		12/444	<ul style="list-style-type: none"> <li>• {<a href="#">Fanning means</a>}</li> </ul>
		12/446	<ul style="list-style-type: none"> <li>• {<a href="#">Sieving means</a>}</li> </ul>
		12/448	<ul style="list-style-type: none"> <li>• {<a href="#">Sieve adjusting means</a>}</li> </ul>
		12/46	<ul style="list-style-type: none"> <li>• Mechanical grain conveyors</li> </ul>
		12/48	<ul style="list-style-type: none"> <li>• Air conduits or blowers for grain</li> </ul>
		12/50	<ul style="list-style-type: none"> <li>• Sack-filling devices; Counting or weighing devices</li> </ul>
		12/52	<ul style="list-style-type: none"> <li>• Arrangements for returning unthreshed grain to the threshing device</li> </ul>
<b>2009/00</b>	<b>Threshing machines with flails; Threshing devices with flails for combines</b>	12/54	<ul style="list-style-type: none"> <li>• Arrangements for collecting or removing dust</li> </ul>
<b>11/00</b>	<b>Threshing apparatus specially adapted for maize; Threshing apparatus specially adapted for particular crops other than cereals</b>	12/56	<ul style="list-style-type: none"> <li>• Driving mechanisms for the threshing parts</li> </ul>
11/02	<ul style="list-style-type: none"> <li>• for flax</li> </ul>	12/58	<ul style="list-style-type: none"> <li>• Control devices; Brakes; Bearings</li> </ul>
11/04	<ul style="list-style-type: none"> <li>• for clover or like seeds, e.g. lucerne</li> </ul>	12/60	<ul style="list-style-type: none"> <li>• Grain tanks {(<a href="#">for combines A01D 41/1208</a>)}</li> </ul>
11/06	<ul style="list-style-type: none"> <li>• for maize, e.g. removing kernels from cobs</li> </ul>		
11/08	<ul style="list-style-type: none"> <li>• for palm fruit, e.g. releasing the fruit from the stalk</li> </ul>		
<b>12/00</b>	<b>Parts or details of threshing apparatus</b> ( <a href="#">devices, other than safety devices for feeders, for protecting human beings A01D 75/20, A01F 21/00</a> )		
12/10	<ul style="list-style-type: none"> <li>• Feeders</li> </ul>		
12/12	<ul style="list-style-type: none"> <li>• without band-cutters</li> </ul>		
12/14	<ul style="list-style-type: none"> <li>• with band-cutters</li> </ul>		
12/16	<ul style="list-style-type: none"> <li>• Safety devices</li> </ul>		
12/18	<ul style="list-style-type: none"> <li>• Threshing devices</li> </ul>		
12/181	<ul style="list-style-type: none"> <li>• {Adjustable threshing mechanisms}</li> </ul>		
12/182	<ul style="list-style-type: none"> <li>• {Stripper beaters after the threshing drum}</li> </ul>		
12/184	<ul style="list-style-type: none"> <li>• {Cleaning means}</li> </ul>		
12/185	<ul style="list-style-type: none"> <li>• {Mounting means}</li> </ul>		
12/187	<ul style="list-style-type: none"> <li>• {Vibratory threshing mechanisms}</li> </ul>		
2012/188	<ul style="list-style-type: none"> <li>• {Rethreshing devices}</li> </ul>		
12/20	<ul style="list-style-type: none"> <li>• Threshing cylinders with ribs</li> </ul>		
12/22	<ul style="list-style-type: none"> <li>• Threshing cylinders with teeth</li> </ul>		
12/24	<ul style="list-style-type: none"> <li>• One-part threshing concaves</li> </ul>		
		<b>13/00</b>	<b>Hand-operated baling apparatus</b>
		<b>15/00</b>	<b>Baling presses for straw, hay or the like</b> {(making compressed stacks <a href="#">A01D 85/00</a> )}
		15/005	<ul style="list-style-type: none"> <li>• {for conditioning bales, e.g. rebaling}</li> </ul>
		15/02	<ul style="list-style-type: none"> <li>• with press-boxes {(A01F 15/046 takes precedence)}</li> </ul>
		15/04	<ul style="list-style-type: none"> <li>• Plunger presses</li> </ul>
		15/042	<ul style="list-style-type: none"> <li>• {Plungers}</li> </ul>
		15/044	<ul style="list-style-type: none"> <li>• {with open pressing chambers}</li> </ul>
		15/046	<ul style="list-style-type: none"> <li>• {with press-boxes}</li> </ul>
		2015/048	<ul style="list-style-type: none"> <li>• {Anti-return systems for the material in the pressing chamber when the plunger moves backwards}</li> </ul>
		15/06	<ul style="list-style-type: none"> <li>• with double-action plunger</li> </ul>
		15/07	<ul style="list-style-type: none"> <li>• Rotobalers, i.e. machines for forming cylindrical bales by winding and pressing</li> </ul>
		15/0705	<ul style="list-style-type: none"> <li>• {Arrangements for continuous operation}</li> </ul>
		15/071	<ul style="list-style-type: none"> <li>• {Wrapping devices (<a href="#">tying devices A01F 15/141</a>)}</li> </ul>

- 15/0715 . . . {Wrapping the bale in the press chamber before opening said chamber}
  - 2015/072 . . . {Braking means for the film roll in balers which wrap the bale before opening the pressing chamber in order to stretch the film while wrapping}
  - 2015/0725 . . . {Film dispensers for film rollers in a satellite type wrapper, e.g. holding and tensioning means for the film roller (the rotating arm itself [A01F 2015/073](#))}
  - 2015/073 . . . {Features related to the horizontal rotating arm of a wrapping device of the satellite type (features of film dispensers [A01F 2015/0725](#))}
  - 2015/0735 . . . {Combined machines that include a press bale and a wrapping device in a further step, e.g. turning table, not in the same closed pressing chamber}
  - 2015/074 . . . {Mechanisms for discharging a bale from the wrapping machine}
  - 2015/0745 . . . {Special features of the wrapping material for wrapping the bale}
  - 2015/075 . . . {Opening the pressing chamber before wrapping, and then wrapping by rotating the bale without displacing it out of the open pressing chamber}
  - 2015/0755 . . . {Configuration of support surfaces which can move in order to rotate a bale around at least one axis while wrapping}
  - 2015/076 . . . {Wrapping device incorporating sensors}
  - 15/0765 . . {Rolling bales on the ground}
  - 2015/077 . . {Pressing chamber formed by belts and rollers}
  - 2015/0775 . . {Pressing chambers with fix volume}
  - 2015/078 . . {Pressing chamber formed exclusively by flexible elements, e.g. belts}
  - 2015/0785 . . {Latching or locking means for the tailgate of the rotobaler}
  - 2015/079 . . {Sledge for rollers of the pressing chamber}
  - 2015/0795 . . {Pressing chamber with variable volume}
  - 15/08 . . Details
  - 2015/0808 . . {Balers incorporate an inclinometer}
  - 15/0816 . . {Devices for dispensing chemicals in bales during formation}
  - 15/0825 . . {Regulating or controlling density or shape of the bale}
  - 15/0833 . . . {for round balers}
  - 15/0841 . . {Drives for balers}
  - 15/085 . . . {for round balers}
  - 15/0858 . . . {for the tying devices or needles}
  - 2015/0866 . . . {Clutching means for the knotting process; Bale length measuring means for triggering the clutching mean}
  - 15/0875 . . {Discharge devices}
  - 15/0883 . . . {for round balers}
  - 2015/0891 . . . {Weighing the finished bale before falling to ground}
  - 15/10 . . Feeding devices for the crop material, {e.g. precompression devices (pick-ups [A01D 89/00](#))}
  - 15/101 . . . {Feeding at right angles to the compression stroke ([A01F 15/106](#) takes precedence)}
  - 2015/102 . . . {the pressing chamber is fed from the bottom side}
  - 2015/103 . . . {the pressing chamber is fed from a lateral side}
  - 2015/105 . . . {the pressing chamber is fed from the top side}
  - 15/106 . . . {for round balers}
  - 2015/107 . . . {Means for withdrawing knives, rotor or walls of the feeding chamber in case of plugging or congestion}
  - 2015/108 . . . {Cutting devices comprising cutter and counter-cutter}
  - 15/12 . . Feeding devices for the ties
  - 15/14 . . Tying devices specially adapted for baling presses {([independent binders A01D 39/00](#))}
  - 15/141 . . . {for round balers (wrapping devices [A01F 15/071](#))}
  - 2015/143 . . . {Guiding fingers for twines in order to avoid the slippage of twines to the sides of the bale when tying it}
  - 15/145 . . . {Twine knotters}
  - 15/146 . . . {Wire twisters}
  - 15/148 . . . {Monitoring the tying, e.g. mistie detectors}
  - 15/16 . . Division blocks
  - 15/18 . . Endless belts, rolls or the like
  - 2015/183 . . . {Constructional details of belts of the press chamber}
  - 2015/186 . . . {Constructional details of rollers or the bearings of the rollers of the press chamber}
- Accessories for threshing machines or baling presses (loaders for sheaves, stacks or bales [A01D 87/12](#); trailers [B62D 63/06](#))**
- 17/00 Straw conveyors for threshing machines or baling presses**
    - 17/02 . Mechanical conveyors
    - 17/04 . Pneumatic conveyors
  - 19/00 Devices for securing threshing machines or baling presses to the ground, e.g. for compensating for unevenness of the ground**
  - 21/00 Devices for protecting human beings for threshing machines or baling presses (in combines [A01D 75/20](#); for feeders for threshing apparatus [A01F 12/16](#))**
  - 25/00 Storing agricultural or horticultural produce; Hanging-up harvested fruit (maturing fruit [A23N 15/06](#); arrangements in barns for preparatory treatment of tobacco [A24B 1/02](#); packing or storing hops [C12C 3/04](#))**
    - 25/02 . Clamps; Pits
    - 25/04 . Stacks, ricks or the like
    - 25/045 . . {Distributing arrangements in haystacks}
    - 25/08 . . Ventilating means
    - 25/10 . . Shelters; {Open sheds or similar structures}
    - 25/12 . Racks for drying purposes
    - 25/125 . . {Transport devices for hay racks}
    - 25/13 . Coverings ([A01F 25/14](#) takes precedence)
    - 25/14 . Containers specially adapted for storing
    - 2025/142 . . {Machinery for making sausage-like groups of bales by wrapping or bagging (for bagging of loose material [A01F 2025/145](#))}
    - 2025/145 . . {Bagging machines for loose materials making some kind of "sausage" on the field (making sausage-like groups of bales [A01F 2025/142](#))}
    - 2025/147 . . {the containers are specially adapted for storing or drying the products in vacuum}
    - 25/16 . Arrangements in forage silos

- 25/163 . . {in tower silos}
- 25/166 . . {in trench silos}
- 25/18 . . Loading or distributing arrangements
- 25/183 . . . {Loading arrangements}
- 25/186 . . . {Distributing arrangements (for haystacks [A01F 25/045](#))}
- 25/20 . . Unloading arrangements
- 25/2009 . . . {Top unloading units for tower silos}
- 25/2018 . . . {Bottom unloading units for tower silos}
- 25/2027 . . . {for trench silos}
- 25/2036 . . . . {Cutting or handling arrangements for silage blocks}
- 2025/2045 . . . . {Unloading arrangements including a conveyor belt for transferring the material to a hopper}
- 2025/2054 . . . . {Machinery for cutting successive parallel layers of material in a trench silo (for shredding [A01F 2025/2063](#))}
- 2025/2063 . . . . {Machinery for shredding successive parallel layers of material in a trench silo}
- 2025/2072 . . . . {Scoops with an extracting tool mounted inside or in the vicinity of said scoop}
- 2025/2081 . . . . {Hydraulic features of the trench silos unloading devices, e.g. hydraulic circuits}
- 2025/209 . . . . {Manual portable tools for unloading a silo, e.g. for cutting out a block}
- 25/22 . . Ventilating arrangements
- 29/00 Cutting apparatus specially adapted for cutting hay, straw or the like (mowers combined with means for cutting up the mown crop [A01D 43/08](#))**
- 29/005 . {for disintegrating and cutting up bales of hay, straw or fodder (for unrolling round bales [A01D 87/127](#))}
- 29/01 . specially adapted for being mounted on or drawn by a tractor, e.g. field choppers
- 29/02 . having rotating knives with their cutting edges in a plane perpendicular to their rotational axis
- 29/025 . . {with feeding direction parallel to axis}
- 29/04 . . with feeding direction transverse to axis
- 29/06 . having rotating knives with their cutting edges on a cylinder surface, e.g. of the helical-type
- 29/08 . having reciprocating knives
- 29/09 . Details
- 29/095 . . {Mounting or adjusting of knives}
- 29/10 . . Feeding devices
- 29/12 . . Discharge means (loaders for hay or like field crop having blowers [A01D 87/10](#))
- 29/14 . . Drives
- 29/16 . . Safety devices, e.g. emergency brake arrangements
- 29/18 . . . for protecting human beings
- 29/22 . . Arrangement of knife sharpening devices