

CPC

A01F

1/00	Stationary apparatus or hand tools for forming or binding straw, hay or the like into bundles (baling apparatus or presses A01F 13/00 , A01F 15/00 ; mobile binders for use in the field A01D 37/00 , A01D 39/00)	12/26	. . Multi-part threshing concaves
1/02	. Hand-operated tools	12/28	. . Devices for adjusting the concaves
1/04	. Fastening or tying devices	12/30	. Straw separators {, i.e. straw walkers, for separating residual grain from the straw (grain cleaning A01F 12/44)}
1/06	. Ties for bundles	12/305	. . {combined with additional grain extracting means}
3/00	Hand-operated implements for cutting-up straw, hay or the like (mechanically-driven straw cutters A01F 29/00 ; cutting in general B26)	12/32	. . with shaker screens or sieves
		12/34	. . . Sieve elements; Linings for shakers
		12/36 Sieve elements specially adapted for handling short straw
Threshing		12/38	. . with juxtaposed and independently-moved shaker bars or the like
5/00	Hand-operated implements for threshing	12/385	. . with endless straw-conveying surface
7/00	Threshing apparatus	12/39	. . with straw carriers in the form of rotors or drums
7/02	. with rotating tools (threshing cylinders or concaves A01F 12/18)	12/395	. . Conical or cylindrical straw separators with internal working surface
7/04	. . with axles transverse to the feeding direction	12/40	. Arrangements of straw crushers or cutters
7/06	. . with axles in line with the feeding direction; {Axial threshing machines}	12/42	. Apparatus for removing awns from the grain
7/062	. . . {with a rotating cage}	12/44	. Grain cleaners; Grain separators
7/065	. . . {with cage sweep mechanisms}	12/442	. . {Rotary cleaners}
7/067	. . . {with material-flow influencing means}	12/444	. . {Fanning means}
7/70	. with flails	12/446	. . {Sieving means}
		12/448	. . . {Sieve adjusting means}
		12/46	. Mechanical grain conveyors
		12/48	. Air conduits or blowers for grain
		12/50	. Sack-filling devices; Counting or weighing devices
		12/52	. Arrangements for returning unthreshed grain to the threshing device
2009/00	Threshing machines with flails; Threshing devices with flails for combines	12/54	. Arrangements for collecting or removing dust
11/00	Threshing apparatus specially adapted for maize; Threshing apparatus specially adapted for particular crops other than cereals	12/56	. Driving mechanisms for the threshing parts
11/02	. for flax	12/58	. Control devices; Brakes; Bearings
11/04	. for clover or like seeds, e.g. lucerne	12/60	. Grain tanks {(for combines A01D 41/1208)}
11/06	. for maize, e.g. removing kernels from cobs		
11/08	. for palm fruit, e.g. releasing the fruit from the stalk		
12/00	Parts or details of threshing apparatus (devices, other than safety devices for feeders, for protecting human beings A01D 75/20 , A01F 21/00)		
12/10	. Feeders		
12/12	. . without band-cutters		
12/14	. . with band-cutters		
12/16	. . Safety devices		
12/18	. Threshing devices		
12/181	. . {Adjustable threshing mechanisms}		
12/182	. . {Stripper beaters after the threshing drum}		
12/184	. . {Cleaning means}		
12/185	. . {Mounting means}		
12/187	. . {Vibratory threshing mechanisms}		
2012/188	. . {Rethreshing devices}		
12/20	. . Threshing cylinders with ribs		
12/22	. . Threshing cylinders with teeth		
12/24	. . One-part threshing concaves		
		13/00	Hand-operated baling apparatus
		15/00	Baling presses for straw, hay or the like {(making compressed stacks A01D 85/00)}
		15/005	. {for conditioning bales, e.g. rebaling}
		15/02	. with press-boxes {(A01F 15/046 takes precedence)}
		15/04	. Plunger presses
		15/042	. . {Plungers}
		15/044	. . {with open pressing chambers}
		15/046	. . {with press-boxes}
		2015/048	. . {Anti-return systems for the material in the pressing chamber when the plunger moves backwards}
		15/06	. . with double-action plunger
		15/07	. Rotobalers, i.e. machines for forming cylindrical bales by winding and pressing
		15/0705	. . {Arrangements for continuous operation}
		15/071	. . {Wrapping devices (tying devices A01F 15/141)}

- 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