

SECTION A – HUMAN NECESSITIES

A01 AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING

A01F THRESHING; BALING OF STRAW, HAY OR THE LIKE; STATIONARY APPARATUS OR HAND TOOLS FOR FORMING OR BINDING STRAW OR HAY INTO BUNDLES; CUTTING OF HAY, STRAW OR THE LIKE; STORING AGRICULTURAL OR HORTICULTURAL PRODUCE

THRESHING

General construction 5/00, 7/00,
9/00

Special applications 11/00

Details 12/00

BALING OF STRAW, HAY OR THE LIKE 1/00, 13/00,
15/00

ACCESSORIES FOR THRESHING

MACHINES OR BALING PRESSES 17/00, 19/00,
21/00

STORING AGRICULTURAL OR

HORTICULTURAL PRODUCE 25/00

MACHINES OR IMPLEMENTS FOR

CUTTING HAY OR STRAW 3/00, 29/00

Forming or tying straw; Hand-operated implements for cutting hay or straw

1/00 Stationary apparatus or hand tools for forming or binding straw or hay into bundles (baling apparatus or presses A01F 13/00, A01F 15/00; binders A01D 37/00, A01D 39/00) [3]

1/02 . Hand-operated tools

1/04 . Fastening or tying devices

1/06 . Ties for straw bundles

3/00 Hand-operated implements for cutting-up hay or straw (mechanically-driven straw cutters A01F 29/00; cutting in general B26)

12/24 . . One-part threshing concaves

12/26 . . Multi-part threshing concaves

12/28 . . Devices for adjusting the concaves

12/30 . Straw separators

12/32 . . with shaker screens or sieves

12/34 . . . Sieve elements; Linings for shakers

12/36 . . . Sieve elements for handling short straw

12/38 . . with juxtaposed and independently-moved shaker bars or the like

12/385 . . with endless straw-conveying surface [5]

12/39 . . with straw carriers in the form of rotors or drums [5]

12/395 . . Conical or cylindrical straw separators with internal working surface [5]

12/40 . Straw crushing or cutting, e.g. by chaff-cutters (cutting apparatus of chaff-cutters A01F 29/00)

12/42 . Apparatus for removing awns from the grain (decorticating or removing awns otherwise than in threshing machines B02B 3/00)

12/44 . Grain cleaners; Separators (screening or sifting apparatus in general B07B)

12/46 . Mechanical grain conveyers (conveyers in general B65G)

12/48 . Air conduits or blowers for grain (for transport in general B65G 51/00, B65G 53/00)

12/50 . Sack-filling devices; Counting or weighing devices (packaging in bags B65B 1/00; weighing apparatus in general G01G; counting mechanisms in general G06M)

12/52 . Arrangements for returning unthreshed grain to the threshing device

12/54 . Dust collecting and removing installations

12/56 . Driving mechanisms for the threshing parts

12/58 . Steering devices; Brakes; Bearings

12/60 . Grain tanks

Baling of straw, hay or the like (baling presses in general, briquetting presses B30B)

13/00 Hand-operated baling apparatus

Threshing

5/00 Hand-operated implements for threshing

7/00 Threshing machines (with flails A01F 9/00); **Threshing devices for combines**

7/02 . with rotating tools

7/04 . with axles transverse to the feeding direction

7/06 . with axles in line with the feeding direction

9/00 Threshing machines with flails; Threshing devices with flails for combines

11/00 Threshing machines adapted for special crops; Threshing devices for combines adapted for special crops

11/02 . for flax

11/04 . for clover or like seeds, e.g. lucern

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 machines; Parts or details of threshing devices for combines

12/10 . Feeders

12/12 . . without band-cutters

12/14 . . with band-cutters

12/16 . . Safety devices

12/18 . Threshing devices

12/20 . . Threshing cylinders with ribs

12/22 . . Threshing cylinders with teeth

A01F

15/00	Baling presses for straw, hay, or the like (making compressed stacks A01D 85/00; pick-ups A01D 89/00) [3]	25/04	. Stacks, ricks, or the like
15/02	. with press-boxes	25/08	. . Ventilating means
15/04	. Plunger presses	25/10	. . Shelters
15/06	. . with double-action plunger	25/12	. Racks for drying purposes
15/07	. Rotobalers, i.e. machines for forming cylindrical bales by winding and pressing [5]	25/13	. Coverings (A01F 25/14 takes precedence; protective coverings for plants A01G 13/02) [3]
15/08	. Parts	25/14	. Containers specially adapted for storing (silos built by civil engineering techniques E04H 7/22) [3]
15/10	. . Feeding devices for the crop material [3]	25/16	. Arrangements in forage silos (loading or unloading arrangements in general B65G; construction of silos E04H 7/22)
15/12	. . Feeding devices for the ties	25/18	. . Loading or distributing arrangements [2]
15/14	. . Special adaptations of tying devices for baling presses (other equipment for binding harvested or mown produce A01D 59/00)	25/20	. . Unloading arrangements [2]
15/16	. . Division blocks	25/22	. . Ventilating arrangements [2]
15/18	. . Endless belts, rolls, or the like		
Accessories for threshing machines or baling presses (loaders for sheaves, stacks or bales A01D 87/12; trailers B62D 63/06)			
17/00	Straw conveyers for threshing machines or baling presses (conveyers in general B65G)	29/00	Special adaptations of cutting machines for cutting hay, straw or fodder; Cutting apparatus of chaff-cutters (mowers combined with means for cutting up the mown crop A01D 43/08; disintegrating in general B02C; cutting machines in general B26D) [3]
17/02	. Mechanical conveyers	29/01	. mounted on or drawn by a tractor, e.g. field choppers [7]
17/04	. Pneumatic conveyers	29/02	. having rotating knives with their cutting edges in a plane perpendicular to their rotational axis [3]
19/00	Devices for securing threshing machines or baling presses to the ground, e.g. for compensating for unevenness of the ground	29/04	. . with feeding direction transverse to axis [3]
21/00	Devices for protecting human beings (in combines A01D 75/20; safety devices in general F16P)	29/06	. having rotating knives with their cutting edges on a cylinder surface, e.g. of the helical-type [3]
25/00	Storing agricultural or horticultural produce; Hanging-up harvested fruit (preservation of plants A01N 3/00; preservation of vegetables or fruit A23B 7/00; maturing fruit A23N 15/06; arrangements in barns for preparatory treatment of tobacco A24B 1/02; storing bulk material in general B65G; packing or storing hops C12C 3/04; drying in general F26B) [3]	29/08	. having reciprocating knives [3]
25/02	. Clamps; Pits	29/10	. Feeding devices [3]
		29/12	. Discharge means (loaders for hay or like field crop having blowers A01D 87/10; conveyers B65G) [3]
		29/14	. Drives [3]
		29/16	. Safety devices, e.g. emergency brake arrangements [3]
		29/18	. . for protecting human beings [3]
		29/20	. Other details [3]
		29/22	. . Arrangement of knife sharpening devices (knife sharpening devices <u>per se</u> B24B) [3]