

This heading comprises only the following subject matter:

- . mechanical means for obtaining fibres from raw materials, cleaning and opening fibres, and forming webs, bats, laps, slivers and slubbings

and embraces:

- . blowing or opening and cleaning apparatus for fur
- . burr beating, crushing or like burr removal apparatus
- . card clothing and machines for making card clothing
- . combing-devices
- . condensing-apparatus for slivers
- . conveyers adapted solely for the opening and cleaning of fibres and the preparation of fibrous materials for spinning
- . decorticating-apparatus for fibre-bearing stems and leaves
- . Derby doublers
- . devils for opening waste material
- . fabric-disintegrating machines
- . fibre-feeding machines
- . gill heads, boxes and frames
- . ginning apparatus
- . grids or screens for openers, cleaners and like machines
- . heckling-devices for fibres (*other than* hand tools)
- . lap-winding apparatus
- . machines for winding into rolls, webs of fibres (*including* cotton-wool) and like matted fibres without wrapping
- . oakum
- . openers for peat and straw
- . pressing arrangements for drawing-off rollers of combing machines
- . rag and waste dusting machines
- . rippling-apparatus
- . rubbing arrangements for slivers, rovings and the like
- . screws for gills
- . scutching-apparatus for flax and like fibrous material
- . separating noil or short fibres from fibre webs
- . sliver balling apparatus (*other than* flyer apparatus)
- . softening fibres by mechanical means
- . stripping and cleaning arrangements for carding-surfaces
- . tearing or pulling machines for felt, wadding and waste material
- . untwisting ropes
- . willeys and willows for opening and cleaning fibres

but does not include the following subject matter, which is to be found in the headings indicated:

- . grinding and crushing of interest apart from the preparation of fibres—B2A, Comminuting
- . cyclone separators—B2P, Centrifuges
- . grinding wire of card-clothing—B3D, Abrading
- . cutting-up fibrous materials and rags—B4B, Cutting &c
- . baling fibres—B5F, Presses
- . holders or tipple boxes for bundling flax and like fibrous materials—B8C, Packaging &c
- . condenser-bobbins—B8M, Reels &c
- . discharging electricity from fibres, apparatus for—
 - . . by parts in mechanical contact with web-like groups—B8R, Handling thin material
 - . . by ionisation of the atmosphere about fibres—H1X, Miscellaneous discharge apparatus
- . obtaining fibres from skins—C6C, Leather, furs &c
- . cone-drawing frames—D1D, Spinning and twisting machines &c
- . evening and drawing mechanism for slivers—D1D, Spinning and twisting machines &c
- . slubbing, intermediate, roving and jack frames, speed and fly frames—D1D, Spinning and twisting machines &c
- . stop motions—D1D, Spinning and twisting machines &c
- . twist tubes and like twisters—D1D, Spinning and twisting machines &c
- . applications of alarms and signals—D1F, Spinning processes
- . applications of counting, measuring and indicating, recording and registering apparatus—D1F, Spinning processes
- . applications of cranes and other lifting and lowering apparatus to machines—D1F, Spinning processes
- . arrangement and applications of magnetic separators—D1F, Spinning processes

- . cleaning and classifying silk cocoons—D1F, Spinning processes
- . cleaning machines—D1F, Spinning processes
- . coilers—D1F, Spinning processes
- . mixing, separating and sorting fibres *other than* in fibre-preparation machines—D1F, Spinning processes
- . obtaining fibres from seeds *other than* ginning—D1F, Spinning processes
- . processes of preparing fibres from spinning utilizing groups of machines—D1F, Spinning processes
- . retting by fermentation processes—D1F, Spinning processes
- . sliver cans—D1F, Spinning processes
- . stripping or retting—D1F, Spinning processes
- . testing laps, fleeces or webs of fibres—D1F, Spinning processes
- . fabrics for card-clothing—D1K, Fabrics &c
- . apparatus for retting—D1L, Apparatus for treating textiles &c
- . lubricating and lustring fibres—D1P, Treating textiles &c
- . ungumming silk—D1P, Treating textiles &c
- . waterproofing fibres—D1P, Treating textiles &c
- . construction of bats, laps and webs of fibres—D1R, Non-woven fibrous materials &c
- . felting bats or sheets of fibres—D1R, Non-woven fibrous materials &c
- . breaking or pulping fibres for paper-making—D2A, Paper-making apparatus &c
- . obtaining fibres by treating with liquids and gases—D2W, Treating woodpulp &c
- . wire for card-clothing—E1K, Miscellaneous metallic materials
- . guards and protectors, and safety devices controlling or controlled by machinery for preventing injury to persons by machines—F2J, Machinery guards &c

The exclusion references listed in this heading are not exhaustive. Reference should be made to the appropriate general heading/s for processes, materials, elements or devices which may be more widely applicable than can appropriately be classified in this heading

Operative date for Key entries

The operative date of the terms in this heading is earlier than that of Edition A

To facilitate searches for combinations of features, throughout this heading each feature is indexed for which a coded term is available, irrespective of novelty

- bale-breakers and blowers. *See* openers &c
- beating cotton, wool and like fibres and peat. *See* openers &c
- beating flax, hemp and like fibrous materials. *See* breaking &c apparatus &c
- breaking and scutching apparatus for flax, hemp and like fibrous materials—
- N4B1 . air-draught arrangements
- . anvils. *See* kinds &c (stamping &c); shoes &c
- . breaking and scutching devices, construction and mounting of—
- . . *Note* the subject matter indexed under terms N4B2C - N4B2X *below* has affinity with matter to be found in heading B2A, Comminuting and search may be necessary in that heading
- N4B2C . . brushing-devices
- N4B2B . . crushing or breaking rollers
- N4B2D . . scraping-edges, devices with
- N4B2E . . stamps, reciprocating beaters, and like devices
- N4B2A . . toothed and other pointed devices
- N4B2X . . unclassified
- . breast-plates and counterbeaters. *See* shoes &c
- N4B3 . delivery and discharge apparatus
- N4B4 . details, unclassified
- N4B5 . driving and stop apparatus
- . . driving or operating breaking and scutching devices. *See* kinds &c
- . feeding, holding, and conveying materials to and in machines—
- . . holders for stricks or bundles of flax and like fibrous materials. *See* holders for flax &c
- N4B6C . . feeding individual stems or stalks longitudinally to machines
- N4B6D . . feed rollers, feed aprons or bands, and feed tables, arrangements of
- N4B6A . . grip-chain and like arrangements
- N4B6B . . holding and conveying arrangements (*other than* grip-chain and like arrangements)
- . . . catch-bar arrangements. *See* heckling-machines (feeding &c)
- . . . channel-lifting arrangements. *See* heckling-machines
- N4B6E . . straightening, evening, and arranging materials treated
- . . . air-draught arrangements. *See* air-draught arrangements
- N4B7 . framework, grids, casings, and coverings
- . kinds or types—
- . . breakers with coating rollers. *See* roller &c mills
- N4B8B . . combination machines comprising two or more types of breaking or scutching devices mounted in one machine and adapted to treat material successively (*other than* combinations of one or two pairs of breaking-rollers at feed end of a machine and one other type of breaking and scutching device)
- N4B8A . . combined with other apparatus
- N4B8C . . materials broken by edges of slots and equivalents in adjacent relatively-reciprocating devices
- N4B8D . . materials drawn or fed between coating devices which bend materials and have scraping action
- N4B8E . . materials held centrally and each end passed through field of action of breaking or scutching device
- N4B8G . . piercing-apparatus
- N4B8H . . roller or crushing mills
- N4B8L . . scutchers with rotary drums or beaters
- N4B8J . . splitting fibrous stalks longitudinally, apparatus for
- N4B8K . . stamping and beetling apparatus
- N4B8F . . unclassified
- . . wood fibre, scraping-apparatus for. *See* unclassified *above*
- N4B9 . shaking and like opening-devices for removing waste and the like
- N4B10 . shoes, breast-plates, and the like
- . stocks. *See* shoes &c
- . straightening and arranging materials treated. *See* feeding &c *above*
- N4B11 . stripping and cleaning breaking and like rollers, scutching-blades, pins, and the like
- . . waste, washing away. *See* supplying water &c
- N4B12 . supplying water to materials in machine

- breaking, opening or scrutching cotton, peat, straw, wool, waste fibres, and the like. *See* openers &c
- bumbles or openers. *See* openers &c
- burring. *See* gins &c
- card clothing and other carding surfaces—
 - . card flats, constructions of. *See* carding-engines (flats)
 - . lags, constructions of. *See* carding engines
 - . securing card clothing on cylinders. *See* carding-engines (breasts &c)
- N7A . constructions and manufacture of card clothing, card wire and other carding surfaces
- N7B . extracting teeth and pins from
- carding-engines—
 - . calender rollers. *See* D1D, Spinning and twisting machines &c
 - . damping and steaming fibres in. *See* D1P, Treating textiles &c
 - . drawing rollers. *See* D1D, Spinning and twisting machines &c
 - . sliver-balling apparatus. *See* lap-winding apparatus
- N2M . air-draught arrangements
- N2G . angle blades and angle combs
- N2D1 . bends
 - . breasts, cylinders, workers, and like rollers—
- N2A1 . . arrangement and disposition of
- . . construction of—
 - . . . breasts, main cylinders, and swifts
 - . . . fancies
 - . . . rollers, unspecified. *See* breasts, main cylinders &c
 - . . . takers-in
 - . . . workers, strippers, clearers, and like rollers
- N2A2 . . mounting
- N2A3 . brushes. *See* breasts &c; stripping &c
- N2A4 . casings and coverings. *See* framework &c
- N2A5 . clearers or strippers. *See* breasts &c
- N2A6 . dirt-knives and substitutes therefor
- N2D2 . dividing-apparatus. *See* doffing &c
- . doffing, condensing, and other treatment of carded web or sliver—
 - . . burring. *See* gins &c
 - . . combs and substitutes therefor, construction, mounting, and operation of
 - . . condenser bobbins, arrangements of
 - . . cylinders and endless bands, construction, mounting, and operation of
 - . . . driving-arrangements. *See* driving-arrangements &c
 - . . cylinders, combs, and endless bands, arrangement and disposition of
 - . . lubricating rubbers. *See* sliver-rubbing &c
 - . . oblique or transverse delivery of web or sliver
 - . . rubbing-leathers and like appliances, construction of
 - . . sliver conductors and guides
 - . . sliver-dividing apparatus
 - . . sliver-rubbing and condensing apparatus
 - . . . condensing-funnels and guides. *See* sliver conductors &c
 - . . spinning, twisting, and winding apparatus, applications of
 - . . unclassified
- N2B1 . doors and undercovers. *See* framework &c
- N2B2 . dressing teeth. *See* trueing surfaces &c
- N2B4 . driving-arrangements (*including* driving arrangements for grinding)
- N2B3 . endless card sheets
- N2B11 . fancies or flies. *See* breasts &c
- N2B6 . flats—
 - . . other than securing card clothing to
 - . . securing card clothing to
- N2B7 . fleece, bat, or lap forming arrangements (*other than* feeding-machines). *See* lap-forming apparatus
- N2B8 . fly and the like, removing from edge of fleece or sliver
- N2B9 . fly combs. *See* doffing &c
- N2B10 . framework, casings, and coverings (*including* part-coverings or shroudings for rollers cylinders and other carding surfaces)
- N2B5 . grids
- N2C1 . hand (cleaning) cards. *See* stripping &c
- N2C2B .
- N2C2A .
- N2L .
- N2D3 .
- N2D4 .

- . kinds or types—
- N1E1 . . combined with other apparatus
- N1E2 . . Garnett machines
- N1E4 . . with flats, lags, and endless card sheets
- N1E3 . . without flats, lags, and endless card sheets
- N2C3 . lags for carding jute and like fibres
- . lickers-in. *See* breasts &c
- . miscellaneous—
- N2X1 . . beating and pin rollers, or steam or air jets, to assist delivery of continuous fleece
- N2X2 . . burnishing dividing rings on doffer
- N2X3 . . flexible strip of card clothing to smooth fibres on collecting cylinder
- N2X4 . . heating arrangements
- N2X5 . . moistening apparatus
- N2X6 . . separating carded material into two grades
- . piecing-apparatus. *See* doffing &c (sliver-rubbing &c)
- N2H . special slivers and webs, producing
- . stop-apparatus, non-automatic. *See* driving-arrangements
- . stripping and cleaning carding-surfaces—
- N2F4 . . apparatus independent of carding-engine
- . . arrangements for stripping and cleaning *in situ*—
- N2F2 . . . cylinders
- N2F3 . . . flats
- N2F1 . . cylinders and combs, construction of
- N2F5 . . traversing-devices, arrangements with
- . takers-in. *See* breasts &c
- N2K . trueing surfaces of parts, dressing teeth, and testing contact and truth of carding-surfaces
- . tummers. *See* doffing &c
- N2J . waste, returning to be recarded
- . workers. *See* breasts &c
- carding, opening, or picking. *See* openers &c
- carding or gilling. *See* gill boxes &c
- carding or heckling flax and like fibres. *See* heckling-machines
- cleaners for cotton and like fibres. *See* openers &c
- cleaners for flax and like fibrous materials. *See* breaking &c apparatus &c
- cleaners or burring-apparatus. *See* gins &c
- cleaning or ginning. *See* gins &c
- combing flax and like fibrous materials. *See* heckling-machines
- combing-machines—
- . brushes, constructions of. *See* A4K, Brushes &c
- N5C1 . air-draught arrangements
- . combs (*including* construction, mounting, and operating)—
- N5C2A . . bar
- N5C2B . . circular
- N5C2C . . cylindrical and segmental
- N5C2D . . endless-band
- N5C2E . . pins, forms and construction of
- . . sun combs. *See* cylindrical &c
- N5C3 . covers and casings for combing-cylinders, stripping-brushes, doffers, and the like
- . dabbing, pressing-in, and other apparatus for laying and holding the fibres in the combs—
- . . blades and bars—
- N5C4A2 . . . reciprocated relatively to the comb teeth
- N5C4A1 . . . stationary relatively to the comb teeth
- N5C4B . . brush apparatus
- N5C4C . . combs and other toothed devices
- N5C4E . . rotary devices (*other than* brushes)
- N5C4D . . unclassified
- N5C5 . details, unclassified
- . drawing-off, detaching, piecing, and delivery apparatus—
- . . nipper mechanism. *See* nipper mechanism
- N5C6A . . delivering two or more slivers of different staple, apparatus for
- N5C6B . . leathers (*including* traversing-motions for)
- N5C6D . . roller and roller-and-apron devices operating to draw off a continuous sliver (Noble type)
- N5C6E . . roller devices operating intermittently to draw off and piece tufts of fibre (Heilmann type) (*including* devices utilizing rollers and segments of combing-cylinders)
- N5C6F . . stokers
- N5C6C . . unclassified
- N5C7 . driving-arrangements
- N5C8 . feeding-apparatus
- N5C9 . heating-arrangements
- . kinds or types—
- N5C10A . . combined with other machines (*other than* combing-machines comprising gill-boxes)

- N5C10B . . Heilmann and like (*including* Delette, Imbs, Nasmith, Offermann, and Schlumberger)
 N5C10G . . Noble and like
 . . rectilinear. *See* Heilmann &c
- N5C10H . . unclassified
 . leathers, construction of, and traversing-motions for. *See* drawing-off &c
- N5C11 . nipper mechanism
- N5C12 . noil, arrangements for re-combing
- N5C13 . noil, waste, and the like, removing and disposing of
 . stokers. *See* drawing-off &c *above*
 combing or carding. *See* carding-engines
 combing or gilling. *See* gill boxes &c
 combing or heckling. *See* heckling-machines
 combing or opening. *See* openers &c
 condensers. *See* carding-engines
 decorticating or stripping. *See* breaking &c apparatus &c
 Derby doublers. *See* lap-forming apparatus
 devils or openers. *See* openers &c
 disintegrating fibres. *See* breaking &c apparatus &c; openers &c
- N5E drawing-frames
 . cone-drawing frames. *See* D1D, Spinning and twisting machines &c
 . gill boxes. *See* gill boxes &c
 . roller heads. *See* D1D, Spinning and twisting machines &c
 drawing or opening fibres. *See* openers &c
 elongating or drafting machines. *See* drawing-frames
 ending or heckling machines. *See* heckling-machines
 fabrics, disintegrating for re-manufacture. *See* openers &c
 feeding and conveying trunks for cotton and like fibres. *See* feeding-apparatus &c
- N5G feeding and transferring flax and like fibrous materials from one machine to another automatically
 feeding and transferring flax and like fibrous materials to and in machines. *See* breaking and scutching
 apparatus for flax &c; gill boxes and frames; heckling-machines
 feeding-apparatus for openers, cleaners, scutchers, carding-engines, and like machines (*including* machines for
 feeding fibres to drying, scouring and like machines)—
 . conveyers, construction of. *See* B8A, Conveyers &c
 . cyclones, applications of. *See* details, unclassified
- N1C2 . details, unclassified
- N1C3 . driving and stop apparatus
- N1C4 . framework, grids, casings, and coverings
 . kinds or types—
- N1C5 . . conveying and distributing apparatus
- N1C8 . . feeding-apparatus forming part of carding-engines
- N1C9 . . feeding-apparatus forming part of openers, cleaners and scutchers
 . . feeding-machines—
- N1C6 . . . hopper type (*including* Bramwell type)
 . . . weighing apparatus, construction of. *See* G1W, Weighing; dynamometers
- N1C7 . . . intermediate type (*including* Apperley, Blamire, and Scotch types)
- N1C11 . regulating, automatic mechanical means for
- N1C12 . toothed cylinders, rollers, aprons, combs, and the like
 fibres, softening. *See* breaking &c apparatus &c; D1P, Treating textiles &c
 filling-engines. *See* combing-machines; silk-dressing machines
 forming bats, laps and webs of fibres (*other than* in feeding machines). *See* lap-forming apparatus
- N5D gill boxes and frames (*including* spreading-machines and roving and like frames comprising gill boxes)
 . pins, counting. *See* G4D, Counting-apparatus
 . porcupine rollers and roller heads. *See* D1D, Spinning and twisting machines &c
 . printing slivers in. *See* B6C, Printing &c
 . spindles and their appurtenances. *See* D1D, Spinning and twisting machines &c
 gins and burring-apparatus—
- N1A1 . accessories
- N1AX . details, unclassified
- N1A5 . driving-arrangements
- N1A6 . feeding and opening arrangements
- N1A7 . ginning-rollers, burring-cylinders, discs, bands, and the like for holding fibres while seeds, burrs, and the like
 are being removed
- N1A8 . grids (*other than* seed-retaining grids such as those of saw-gins)

- N1A2 . kinds or types—
- N1A3 . . burr crushing, cutting, and breaking machines and apparatus
- N1A4 . . churka type
- N1A10 . . combined with other apparatus
- N1A12 . . knife-roller type
- N1A14 . . Macarthy type
- N1A18 . . saw type
- N1A9 . . unclassified
- N1A11 . knife rollers
- N1A13 . knives, beater blades, combs, and the like (*including* seed-retaining grids such as those of saw-gins)
- N1A15 . saws
- N1A16 . seeds, burrs and the like, collecting and removing
- N1A17 . setting and adjusting parts
- guards and protectors for machinery, applications of. *See subdivisions for machines*
- hair, picking. *See openers &c; D1F, Spinning processes*
- heckle or gill heads. *See gill boxes &c*
- heckling-machines—
- . heckling-machines for silk. *See silk-dressing machines*
- . pins, counting. *See G4D, Counting-apparatus*
- N5A1 . channel-lifting arrangements
- . corner motions and cross-channel arrangements. *See transferring stricks &c*
- N5A11 . delivery and discharge apparatus
- N5A2 . driving-arrangements
- . driving or operating heckling-devices. *See heckling-devices &c*
- . feeding, holding, and conveying materials to and in machines—
- . . grip-chain and like arrangements. *See breaking &c apparatus &c (feeding &c)*
- N5A3A . catch-bar arrangements
- N5A3F . channels, construction of
- N5A3B . . excessive or wrongful movement of holders in channels, preventing
- N5A3C . . feed rollers, feed aprons or bands, and feed tables
- N5A3D . . holders, arrangements for moving (*other than* catch-bar arrangements)
- N5A3E . . unclassified
- N5A10 . framework
- N5A4 . guides, strokers, and like devices to prevent entanglement of stricks
- . heckling-devices, construction of, mounting and operating—
- . . hand tools. *See D1F, Spinning processes*
- N5A7A . . bars
- . . . connected to endless bands. *See sheet*
- N5A7B . . cylinders
- N5A7C . . pins, forms of
- N5A7D . . sheet
- . kinds or types—
- N5A5A . . combined with other apparatus
- . . material secured in holders and operated upon by heckling-devices moving relatively to holders—
- N5A5B . . . comprising two main sets of heckling-devices and automatic means for transferring stricks from one to another
- . . . holders moved to present materials to, and withdraw them from, heckling-devices—
- holders also moved to carry materials from one heckling-device to another
- holders not moved to carry materials from one heckling-device to another
- N5A5C . . . holders not moved to present materials to, and withdraw them from, heckling-devices
- N5A5D . . . holders rotary, heckling-devices stationary
- N5A5X . . unclassified
- N5A12 . stricks or tufts, forming
- N5A6 . stripping tow from heckling-devices
- N5A8 . touch-pins and other ending-devices
- . transferring stricks from one main set of heckling-devices to another, automatic means for—
- . . extracting heckled stricks from open holders. *See feeding &c flax &c*
- N5A9A . . corner-motions, turntables, and like arrangements
- N5A9B . . endless-chain and rotary frame devices
- N5A9F . . opening holders for insertion of new stricks
- N5A9D . . pull-through arrangements for partially-heckled stricks and other devices for moving grip of holder on strick
- . . rotary-frame devices. *See endless-chain &c*
- . . turntables. *See corner-motions &c*
- N5A9E . . unfastening and refastening holders
- . . . screwing and unscrewing apparatus of interest apart from heckling-machines. *See B3N, Screwing and tapping*
- heckling or opening tow, waste fibres, and the like. *See openers &c*
- N5F holders for flax and like fibrous materials
- . grip-chain and like arrangements. *See breaking &c apparatus &c (feeding &c)*
- . unfastening and refastening, automatic arrangements for. *See heckling-machines (transferring stricks &c)*

- jute-slivering machines. *See* gill boxes &c
 lap-forming apparatus (*including* apparatus for treating laps in scutchers and like machines)
 . construction of laps — DIR, Non-woven fibrous materials &c
 . flyer apparatus for balling slivers. *See* D1J, Winding and unwinding
 . lap machines or scutchers. *See* openers &c
 N1F lap-winding apparatus (*including* apparatus for balling slivers)
 moistening-apparatus, applications of. *See* carding-engines; gill boxes &c; heckling-machines
 N8 oakum, and untwisting ropes
 . treating for spinning. *See subdivisions for processes and apparatus used*
 openers, cleaners, and scutchers for cotton, wool, and like fibres (*including* openers for peat and straw)—
 . fibre-feeding apparatus. *See* feeding-apparatus for openers &c
 . husks or pods, separating seed cotton from. *See* D1F, Spinning processes
 . opening and cleaning apparatus forming parts of gins and burring-apparatus. *See* gins &c (feeding &c)
 . winding laps in scutchers and like machines. *See* lap-winding apparatus
 . *Apparatus for opening slivers for break spinning is indexed also under* D1D, Spinning and twisting machines &c
 N1B1 . air-draught arrangements
 N1B2 . beating, brushing, and tearing devices, moving
 N1B5 . driving and stop apparatus
 . kinds or types—
 N1B8 . . bale-breaker type (*including* means for unbalancing wound bales)
 . . . *Note* the subject matter indexed under this term has affinity with matter to be found in headings A4C, Cutting foodstuffs &c and B2A Comminuting and search may be necessary in these two headings
 N1B9 . . combined with other apparatus
 . . Creighton openers. *See* vertical type
 . . hair pickers. *See* rag &c machine type
 N1B12 . . rag, hair, and waste pulling, tearing, cleaning, and dusting machine type
 N1B15 . . vertical type, *i.e.* devices in which the opener rotates about a vertical axis
 N1B16 . . willow type, *i.e.* devices in which the opener passes over a grid so that dirt &c falls therethrough
 (*including* cotton scutchers, shake-willeys and willeys)
 N1B11 . . unclassified
 opening, cleaning, and scutching flax and like fibrous materials. *See* breaking &c apparatus &c
 opening or carding. *See* carding-engines
 opening or gilling. *See* gill boxes &c
 peeling and piercing flax and like fibrous materials. *See* breaking &c apparatus &c
 pickers. *See* openers &c
 piecing cardings. *See* carding-engines
 porcupine heads. *See* gill boxes &c
 preparing wool and like fibres for combine. *See* gill boxes &c
 rag and waste dusters. *See* openers &c
 ribbon-lap machines. *See* lap-forming apparatus
 N4C rippling-apparatus
 rollers, ginning. *See* gins &c
 rolling, rubbing, and scraping apparatus for flax and like fibrous materials. *See* breaking &c apparatus &c
 rubbing slivers, rovings, and the like. *See* carding-engines (doffing &c)
 screwing and unscrewing mechanism for flax and like holders. *See* heckling-machines (transferring stricks &c)
 scribblers. *See* carding-engines
 scutching cotton and like fibres and peat. *See* openers &c
 scutching flax and like fibrous materials. *See* breaking &c apparatus &c
 separating dirt, dust, and the like from fibres. *See subdivisions such as* openers &c
 shake-willeys. *See* openers &c
 N5B silk-dressing machines
 sliver-balling apparatus. *See* lap-winding apparatus
 sliver conductors or guides and rubbing and dividing apparatus. *See* carding-engines (doffing &c)
 softening fibres. *See* breaking &c apparatus &c; D1P, Treating textiles &c
 splitting fibrous stalks. *See* breaking &c apparatus &c
 spreading-machines. *See* gill boxes &c
 squeezing or swingling flax and like fibrous materials. *See* breaking &c apparatus &c
 straightening and evening butt ends of flax and like straws preparatory to breaking and scutching. *See* breaking &c apparatus &c (feeding &c)
 strick holders. *See* holders for flax &c
 tearing and teasing machines. *See* openers &c
 tenterhook willeys. *See* openers &c
 tow, cleaning and opening. *See* openers &c; D1F, Spinning processes
 untwisting ropes. *See* oakum &c
 weigh boxes. *See* drawing-frames
 willeys and willows. *See* openers &c
 winding bats, laps and webs of fibres into rolls. *See* lap-winding apparatus