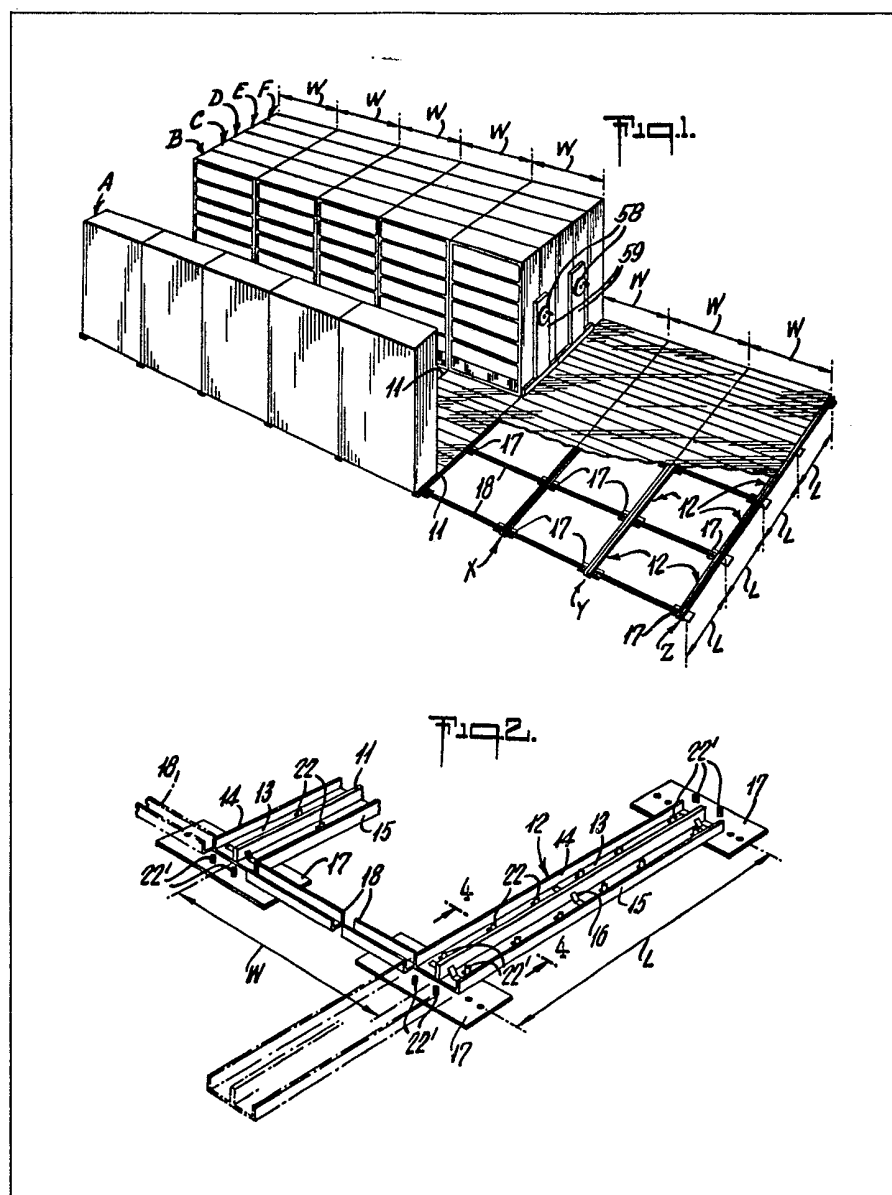


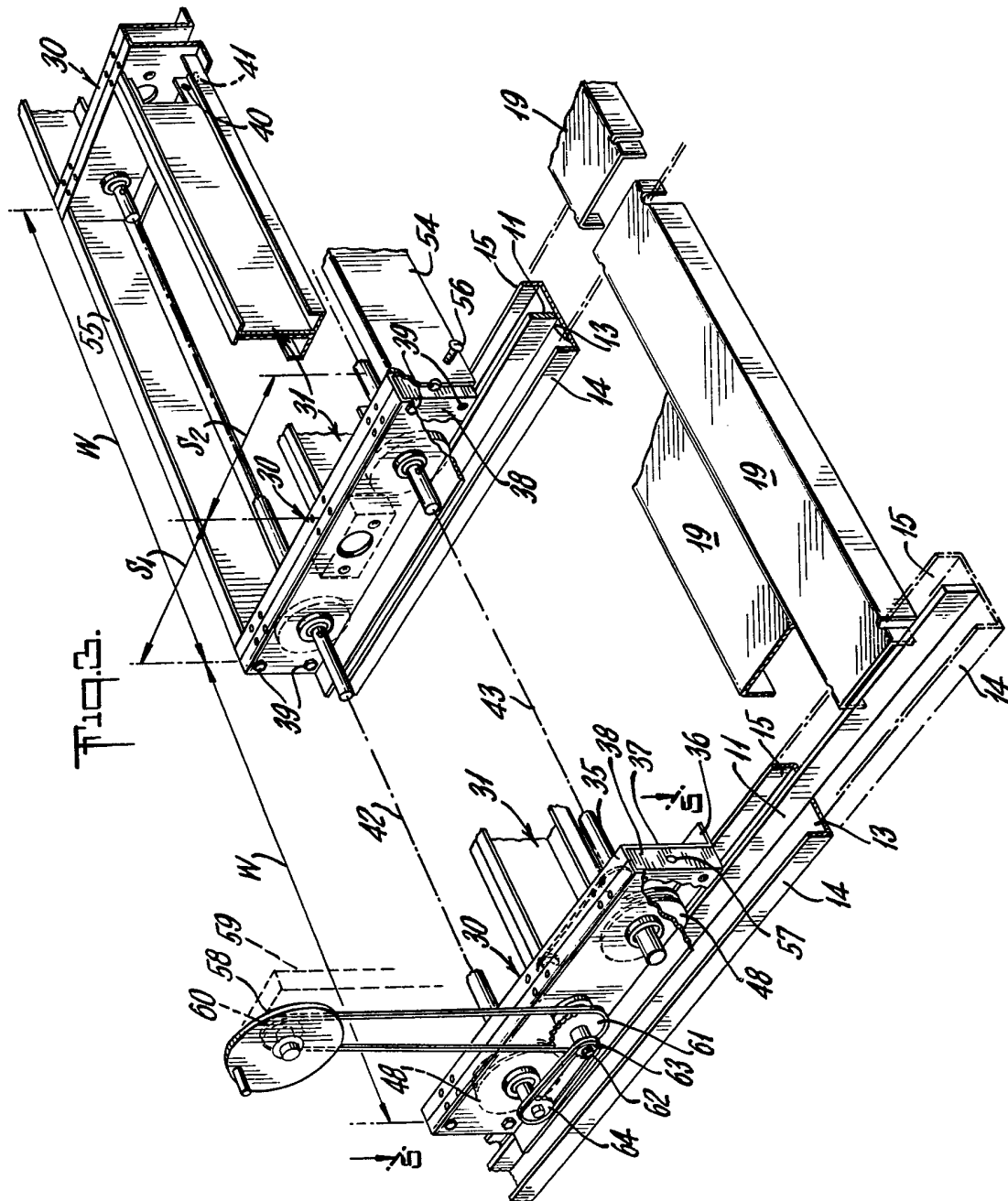
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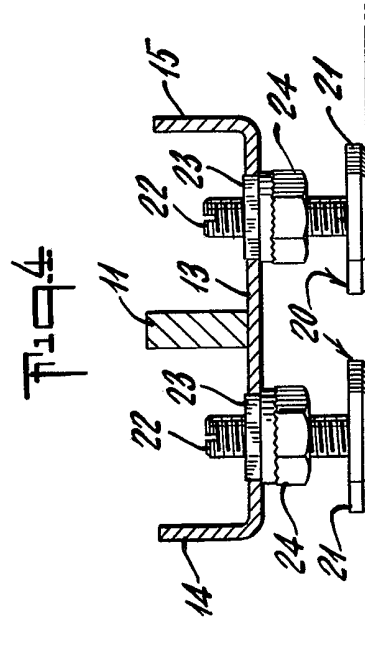
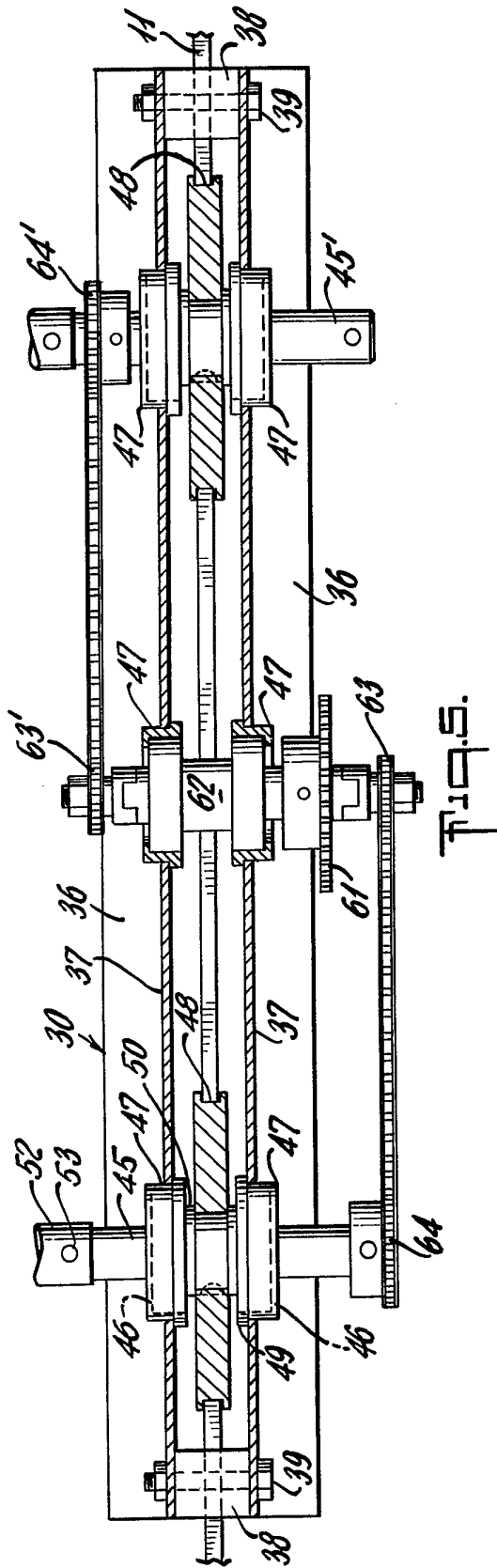
(54) Filing or like storage system

(57) A storage system for books, files etc is of the kind having rack structures in the form of cabinets, each of standard width W , which are supported on wheels to run along parallel rails 11 which extend normal to the width W of the cabinets and at a spacing equal to the width W , the rails, 11 forming part of a floor-mountable track system composed of modular lengths L of the rails 11 and spacer members 18 which are interconnected by plates 17, the rails 11

having feet (21, Figure 4), threaded shanks 22 of which are adjustable in nut inserts (23 in the rails 11, and which are adapted to rest on the supporting floor without being anchored thereto, whereby the system can be readily removed, rearranged, expanded or otherwise modified, without damage to or modification of the supporting floor. The specification also discloses details of a wheeled base structure by which pairs of cabinets arranged back to back are supported on a common set of wheels (Figures 3 and 5).







SPECIFICATION

Modular filing or the like system

- 5 This invention relates to an improved modular multiple cabinet or shelf system for storing books, files or the like, wherein a vertical plane of front access to any given cabinet module (or tiered modules, or end-to-end connected row of the same) is available upon wheeled horizontal displacement of either the given cabinet module (or row) or the cabinet module (or row) which may be immediately adjacent the said access plane of the given module (or row), the displacement being along rails which extend normal to the said front-access plane.

In the discussion which follows, each modular assembly comprises a modular base unit upon which front-access cabinet or shelf units are assembled in vertically tiered array, and for more precise description these units will be referred to in the context of unit width W and depth D , in the horizontal-plane sense. Such module units may be assembled in end-to-end abutting succession, in which case the longitudinal extent of the assembled units is an integer multiple of the unit cabinet-module width W . The longitudinal direction of the rail system to serve moving modules of the system is of course normal to the direction W and will be referred to as a length dimension, using the symbol L .

It is well-known in the art to provide tracts upon which file cabinets and the like may be moved. However, prior practice has been either to ensure the tracks directly to the floor in the room where the file cabinets will be located or to first lay a new floor constructed of concrete or the like on top of the existing floor and then secure the track to the new floor. These methods are exceedingly cumbersome and expensive, especially when new track is added lengthwise onto or adjacent to existing tracks for accommodating more file cabinets. An additional problem arises when new track is laid adjacent to existing track because there has been no practical way to connect each newly added file cabinet with an adjacent existing file cabinet so that they move simultaneously across the tracks. Furthermore, if the file cabinets are relocated to a different room, the tracks are exposed and therefore must be tolerated; ripped out of the floor, or covered with yet another floor.

An additional problem with tracks laid according to these prior methods is that particularly when leveled by grout, shims or the like, the tracks can become undulated, warped or tilted because of various stresses applied to the floor caused by weather, earthquakes, weak ground support, etc. Even minor warping or tilting of a track inhibits movement of the file cabinets thereon and increases the risk that the file cabinets will topple. If such warping or tilting does occur, a new track must be laid.

It is, accordingly, an object of the invention to provide an improved file cabinet rail system not subject to the above-noted difficulties.

65 Another object is to provide an improved rail-

guided cabinet base for use with such a system.

It is a specific object to achieve the above objects with basic modular track-system components which enable ready disassembly, rearrangement, expansion or other modification of a given rolling-cabinet file system.

Another specific object is to achieve the above specific object with a system which neither damages the supporting floor nor requires any adapting modification thereof.

A further specific object is to achieve the foregoing objects with demountable modular components of elemental simplicity, inherently low cost, and which is the essence of simplicity to install, service and modify as needs for its use change in the course of time.

Other objects and various further features of novelty and invention will be pointed out or will occur to those skilled in the art from a reading of the following specification in conjunction with the accompanying drawings. In said drawings, which show, for illustrative purposes only, a preferred form of the invention:

Figure 1 is a simplified perspective view of a filing system of the invention, to illustrate modification by expansion, certain parts being broken away to reveal supporting structure;

Figure 2 is an enlarged fragmentary view in perspective to show interconnecting modular structure of *Figure 1*;

Figure 3 is a view similar to *Figure 2* to show further interconnecting modular structure of the system of *Figure 1*;

Figure 4 is an enlarged vertical sectional view taken at 4-4 of *Figure 2*; and

Figure 5 is a horizontal sectional taken along the line 5-5 of *Figure 3*.

In *Figure 1*, the invention is shown in application to a rollable multiple-row modular file-cabinet system, such as a law library, in the process of expansion. Each row of the original installation illustratively comprised seven vertically stacked tiers of five end-to-end connected cabinet modules 10. The outer fixed (i.e. non-rollable) rows A, F comprise single modules in tiered and end-connected array. The inner rollable rows B, C, D and E are similarly tiered and end-connected, but additionally are back-to-back connected as doubled pairs, each doubled pair being supported on rollable base structure to be described in connection with *Figure 3*. Concealed wheels forming part of each such modular base enable the cabinets of each doubled pair, such as the pair B-C or the pair D-E, to be selectively moved as a unit along spaced parallel rails 11. With the doubled pairs moved as much as possible to one or the other of the fixed outer rows A, E, a single aisle space Δ , as of double cabinet depth, is presented at any one time, for selective access to files, books or the like via the opposed front-access planes of the module rows involved. Thus, for the cabinet modules shown in *Figure 1*, the original requisite floor-area dimensions were five times the unit width W of each module (i.e. $5W$), by Δ plus six times the unit depth of each module. Illustratively, therefore, for modular cabinet width of 36 inches and depth of 12 inches, and with a

36-inch aisle allowance Δ , the overall floor-space requirements were 9 feet by 15 feet (i.e. 135 sq. ft) for a cabinet-module capacity of $6 \times 7 \times 5$, or 210 cabinet modules.

- 5 However, the system of Figure 1 is in the process of expansion, illustratively in two horizontal dimensions, both in the quadrant direction from which the view of Figure 1 is taken. To this end, all existing rails are extended by one modular length L , illustratively
10 36 inches, while additional rails 11, at locations X-Y-Z and modular width spacings W , will expand each row of the system to eight end-to-end connected modules. Figure 1 happens to display the point in time at which the first fixed row A has been
15 relocated, to its ultimately expanded location, thereby permitting addition of a new double rollable row (not shown), for example in the double-aisle space 2Δ which has just been developed upon outward relocation of the fixed row A. When fully expanded
20 and implemented by further rollable base modules and by seven-tiered stacks of cabinet modules, the capacity of the system will be $8 \times 7 \times 8$, or 468, cabinet modules, all contained within a floor-area requirement of 12×24 feet (i.e. 288 sq. ft.), thus
25 substantially more than doubling the cabinet module capacity, for a little more than doubling of the floor area involved.

- Directing additional attention to Figure 2, the foregoing result will be seen in large part to be
30 attributable to the grid-like nature of connected rail and spacer members constituting the basic support structure beneath original and expanded versions of the indicated file-cabinet system. In the support system illustrated, unit-handling rail members 12 are
35 of unit length L ; each member 12 comprises an upwardly facing channel having a relatively wide base 13 between like upstanding sidewalls 14-15, and the associated rail 11 is a steel bar of rectangular section, edge mounted at the central alignment of
40 base 13. Three longitudinally spaced straps 16 clamp rail 11 firmly to base 13 via similarly spaced broached openings in rail 11. The rails members 12 are interconnected in end-to-end aligned array (e.g. at each of the newly added alignments X-Y-Z) by
45 splice plates 17 having orthogonally related dimensions which preferably exceed the overall sidewall-to-sidewall width of the rail supporting channel. It will be understood that at proper rail-member overlap with a splice plate 17, plural apertures
50 register in both the channel base 13 and plate 17 to enable multiple bolting of each channel end to a connecting spliceplate. Consistent modular spacing W between adjacent parallel rails 11 is achieved by bolted assembly of channel members 18 to splice
55 plates 17 at end overlap therewith. Preferably, the upstanding side walls of the spacer channels 18 are vertically coextensive with sidewalls 14-15, whereby said side walls may define and establish a single horizontal plane of flooring support, between adjacent rail alignments. In Figures 1 and 3, such flooring
60 is seen to comprise plural like downwardly flanged panels 19, of overall length to derive support at one end from the sidewall 15 of one rail-member channel and at its other end from the sidewall 14 of the
65 next-adjacent rail-member channel, the flanges of

panels 19 being locally cut away to permit such controlled location of each panel 19 as to assure an end clearance with respect to the adjacent rail 11.

- Description of the support structure is completed
70 by noting the plural spaced adjustably elevated feet which depend from spaced locations along each rail-member alignment, an illustrative pair of such feet being shown in Figure 4. Each foot element 20 is shown as a bolt with a large-span hexagonal head 21 and an elongate threaded shank 22 of the bolt is
75 adjustably received in a flanged nut insert 23 which is a force-fitted part of the channel base 13. A lock nut 24 is carried by shank 22 between head 21 and nut 23 and is provided with upper-surface serrations,
80 for positive retention of a locked relation of nut 24 against nut 23. It will be understood that further spaced pairs of threaded foot elements 20 may be similarly incorporated in the splice plate, with their threaded shanks 22 passing through large unengaged holes in the channel base 13.
85

- In practice, the described rail-support system is first assembled at the desired floor location, via splice plates 17, to the desired modular unit dimensions, e.g. $3L$ by $5W$, or $4L$ by $8W$. The system is then
90 leveled by threaded adjustment of feet 20, as necessary, and all lock nuts 24 are then firmly secured. Should an expansion be made from an existing system, as from the $3L$ by $5W$ initial example here, to the expanded $4L$ by $8W$ system outlined in
95 Figure 1, the assembly and leveling process proceed from direct referencing connection of new rail members 12 and spacer members 18 to existing installed splice plates 17 which are exposed at modular intervals along the edge limits of the
100 pre-existing $3L$ by $5W$ structure.

- Having thus far accounted for the basic supporting rail structure and its leveling, all without having to mar or destroy any part of existing floor, Figures 3 and 5 will be additionally considered in a description
105 of the modular rollable base structure for mounting multiple tiers of cabinet modules. But first, it will be explained that, for aesthetic purposes, fixed outer base units to support the cabinet modules of outer non-rollable rows A and F are provided with suitable
110 means for seated and preferably bolted support upon and between adjacent bases 13 and side walls 14-15 of adjacent rail-channel members, and that, these fixed base units may be of effective height to place all non-rollable cabinet modules at elevations
115 corresponding to elevations of their rollable counterparts. It will also be understood that the depth dimension of such fixed base Row A is such as to enable close but removably assembled placement of an integer number of floor panel modules 19 in the
120 space between the fixed based units of outer rows A and F. For example, if the effective depth dimension of the fixed base units is 9 inches, a 3-inch cabinet module overhang in rows A and F will exist to reduce the chances of inadvertent kicking of the base unit; with this 3-inch overhang, and with panels 19 of
125 width $L/6$ (i.e. 6 inches in the present example of L equal to 36 inches), the space between outer-row base units of the $4L$ by $8W$ expanded system will be 10.5 feet and will neatly accommodate 21 floor
130 panels, for each space between rail alignments.

In Figures 3 and 5, each rollable modular base unit is seen to comprise spaced parallel downwardly open end-frame channels 30 at effectively rail-to-rail spacing W between channel centers. These channels 30 are bolted together by means of effectively a single central beam 31, and the upper surfaces of channels 30 and beam 31 lie in a single horizontal plane to establish a generally H-shaped pattern to support for the lowest-tier cabinet modules assembled thereto, in back-to-back relation. In Figure 3, the span S_1 between upstanding phantom lines 32-33 will be understood to indicate the depth placement of one lowest-tier cabinet module, while the span S_2 between phantom lines 33-34 similarly indicates placement of the other lowest-tier cabinet module which is back-to-back assembled thereto.

In the preferred form shown, each of the channels 30 is an assembly of two opposed duplicate channel halves, each being of generally Z-shaped sectional configuration and characterised by oppositely directed upper and lower elongate horizontal flanges 35-36 integrally connected by a large vertical wall 37 of the channel 30. At each end of the channel a spacer block 38 fills the end and enables rugged bolted assembly of walls 37 to each other, at bolt locations 39. Also as shown, the beam 31 is an assembly of two like flanged members of generally L-section, which may be secured to each other as at 40 and similarly secured at 41 to the applicable lower flange 36 of the applicable channel 30. It will be understood that upper flanges at least of the channel halves may be preformed with suitably spaced apertures, as shown, for later accommodation of self-tapping screws employed to secure the assembly of the lowest-tier cabinet modules thereto.

For rolling suspension of two wheels per channel 30, shaft-mounting openings are provided in the spaced sidewalls 37 of each channel, on first and second longitudinal alignments 42-43 at opposite lateral offsets from the beam 31, and a separate axle element 45 extends through each thus-aligned pair of channel-wall openings and has journaled rotational support in each channel wall. In the form shown, the journaled support is in each case provided by antifriction means 46 such as a ball bearing having its inner ring seated upon the axle and its outer ring seated in a flanged cup or bushing 47, which in turn locates in the channel-wall opening provided for journal support. Between locations of journal support, a wheel 48 is centrally located and secured as by a key to axle element 45, and both axle ends project outwardly of their journal-support locations. As shown in Figure 5, the central positioning of axle 45 and wheel 48 between channel side walls 37 is assured by the described flanged-cup relation to the channel-wall openings and by an integral shoulder or flange 49 to locate one bearing inner ring and one side of wheel 48, while a spacer ring 50 of axial extent corresponding to that of flange 49 locates the other side of wheel 48 with respect to the inner ring of the opposite bearing. Adjacent projecting ends of axles at adjacent channels 30 and on the same alignment 42 (or 43) are interconnected with adequate torsional rigidity by means of an elongate tubular member 52 having telescopic overlap with both

adjacent axle projections and by means 53 of such precision and stiffness as to enable two such tabular connections 52 (on alignments 42,43) to materially add to the structural integrity of each modular unit of the frame members 30-31.

For most channel 30 locations, it is not necessary to adopt any special guidance relation or measures to assure wheel 48 alignment with the rail 11 upon which it rides, it being sufficient and preferred that such measures taken at the longitudinal-end channels 30 of each row (e.g. B-C, and D-E) are sufficient to assure that all wheels 48 of all channels 30 ride their associated supporting rails 11. Thus, wheels 48 at the end channels 30 are preferably double-flanged, the flanges deriving guidance from the sides of their associated rails, while the wheels 48 at the intermediate channels 30 are unflanged, it being noted that the rail-running width of the unflanged wheels (e.g. $\frac{3}{4}$ inch) substantially exceeds the width (e.g. $\frac{1}{4}$ inch) of the associated rail 11.

As with the case of extending the rail-support grid system, so also with extension of the rollable modular base systems; expansion may be achieved by assembling the described rollable-base module components, to the exposed end of the existing structure and to each other, with minimum dislocation of existing structure. Thus, for the assumed expansion situation, a complete new 8-unit double-row rollable base may be assembled *in situ* along the full $8W$ extent of the track system, as in the expanded-aisle alignment shown in Figure 1 between fixed row A and the next-adjacent double-row unit B-C; this full-length 8-unit assembly will ride on nine parallel alignments of rails 11, the last three such alignments being designated X-Y-Z. Therefore, the new full-length assembly will involve nine channels 30, each preassembled with its two axles 45 and associated flanged or unflanged wheels 48, and the framing of all rollable base units is completed by bolted connection of spacer beams 31 between channels and by press-fit pinned connection of all torque tubes 52 to the telescopically overlapped axle ends with which they are associated. The torsional rigidity of axle connections on the alignment 42 and on the alignment 43 will be understood to assure against any tendency of the new double-row assembly to skew with respect to the supporting rail alignments in the course of rolling displacement.

Having completed frame construction of the full-length rollable base, suitably flanged front and rear panels 54-55 may be installed, it being shown in Figure 3 that flat vertically oriented longitudinal ends of these panels seat against channel-end spacer blocks 38, with each panel 54 (55) in end-to-end adjacency with the next such panel 54(55), single bolt 56 being driven into a tapped hole 57 in block 38 to hold panels 54 (55) assembled to the described frame.

If the described rollable base structure is small enough or lightly loaded with tiers of cabinet modules, the rolling displacement of the double row involved may be achieved by direct manual force, applied anywhere along the double row. But for greater ease of driving such displacement, a hand

wheel 58 is mounted to the row end, with sprocket connection to one or both of the shaft alignments 42-43. To this end, an upstanding sheet-metal box-like frame (suggested at 59) is mounted to the base channel 30 and to the end face of cabinet modules in the assembled double row, thus providing an elevated location for journaled support of a short shaft to which both hand wheel 58 and a sprocket wheel 60 are keyed. The frame 59 also protectively encloses a first endless sprocket-chain connection from wheel 60 to a driven sprocket wheel 61 pinned to an intermediate short shaft 62 which is journaled at a central location in the end channel 30; as shown in Figure 5, the driven sprocket wheel 61 is large compared to the driving sprocket wheel 60, thus achieving mechanical advantage through speed reduction. A second sprocket wheel 63 is also mounted to shaft 62 and is keyed to wheel 63 to serve another speed-reducing sprocket-chain connection to a driven sprocket wheel 64, shown pinned to the axle 45.

Under most circumstances, the described single-shaft alignment (42) drive will be found adequate and easy acting, in view of the consistent use of ball-bearing suspensions and in view of the indicated speed-reduction relation between hand wheel 58 and the driven shaft alignment. However, in the event that it should be desired to provide coordinated drive to both shaft alignments 42 and 43, a second sprocket-wheel pickoff is readily made at 63', namely, at the inner end of shaft 62, with a third sprocket-chain coupling to a driven sprocket wheel 64' on the second axle 45' to the end channel 30. All externally exposed parts of the drive system will be understood to be suitably encased by sheet-metal enclosures (not shown) but removably secured to end frame or end panel surfaces which have been described.

The description for the full-length new double-row rollable base will be seen to be equally applicable to the rollable-base extensions that are needed to extend the capacity of rows B-C and D-E. In each case, having first removed (from the original ends of rows B-C and D-E) the hand wheel 58, the auxiliary box frame 59 and all exposed sprocket wheels and chains, the first new beam 31 may be secured to the then-exposed end channel 30 and all further channels 30 and beams 31 assembled thereto, as previously described, it being noted that to avoid beam interference with the intermediate shaft 62 of the original system, the outer channel half of the outer channel 30 may be unbolted from its inner half, thus freeing the shaft 62 and its suspension for total removal, prior to reassembly of the removed channel half.

To avoid beam (31) interference with the shaft 62 at beam connection to the end channel 30, the last beam 31 may be omitted or, preferably, the web of beam 31 may be locally cut out for clearance with shaft 62 and its sprocket wheel 63'.

For simplicity in the foregoing description, the indicated expansion in the track-length direction L has been assumed to involve a full modular track-member unit L, which illustratively means a 3-ft. expansion. However, for such 3-ft. expansion, only

one further rollable double-row unit has been added, meaning a two-foot use of the 3-ft. added L dimension, thereby providing a one-foot widening of the previously existing 3-ft. aisle allowance Δ . For the situation in which available floor space does not permit the luxury of thus expanding from a 3-ft. to a 4-ft. aisle allowance, we provide the rail-member units in submodular fractional lengths, as for example, of length $2L/3$ or $L/2$. Thus, in the assumed L-expansion situation, use of $2L/3$ submodular rail members will permit the desired expansion, without expansion of the aisle allowance Δ , and use of $L/2$ submodular rail members will permit the desired expansion at only a six-inch loss of space on the original 3-ft. aisle allowance Δ . And as long as any such submodular rail-members are related by integer multiple to the floor-panel unit width, here taken as $L/6$, the floor-panel accommodation is correct, whatever the expansion in the L direction.

In the foregoing description, the reference to modular cabinets will be understood to be illustrative of but one of a variety of article-storing modules which can be accommodated by the described modular track and rollable-base systems. Thus, upstanding frames at alignment with channels 30 may accommodate modular systems of shelving, clothes-rack, or other storage accommodation, and the reference to modular cabinets will be understood to contemplate such storage structures.

Also, while manual drive via hand wheel 58 may be perfectly satisfactory for many applications, such a drive is to be deemed to be illustrative, in that electric-motor operated drive of one or both shaft alignments 42-43 may be desired in certain applications.

The described construction will be seen to have satisfied all stated objects and to have provided very substantial improvement over existing systems. In particular, the rail height above channel base 13 will be understood to be at or just below the top surface plane of floor panels 19, thus avoiding any chance that a rail will trip the shoe of operating personnel. And the end clearance between panels 19 and the adjacent rail surface may be so small as not to present a hazard to small heels of operating personnel, it being understood that such clearance is needed only to clear the width of the rolling wheels 48 associated with each rail.

While the invention has been described in detail for the preferred form shown, it will be understood that modifications may be made without departing from the claimed invention.

CLAIMS

1. In a modular cabinet or the like system for storage of books, files or the like, wherein at least one of a plurality of cabinet modules of unit width has rolling mobility along parallel rails which extend normal to the module-width dimension and at module-width spacing, the improvement which comprises a floor-mountable track system of rigid interconnected modular rail and spacer members adapted to provide permanent guided support of one or more movable cabinet modules without

anchorage to the supporting floor, whereby the system can be readily moved, rearranged, expanded or otherwise modified, without damage to or modification of the supporting floor.

- 5 2. The improvement of Claim 1, in which each modular rail member is of unit length and includes an elongate channel element comprising two like
 • upstanding elongate side walls interconnected by a relatively wide base, and an upstanding elongate rail
 10 element carried by said base between said side
 • walls, said channel and rail elements being of said unit length, and means for selective end-to-end connection of a plurality of said rail members.

3. The improvement of claim 1, wherein each of
 15 said modular rail members carries a longitudinally spaced plurality of floor-contacting foot elements, each of which foot elements extends beneath the rail member and has a selectively adjustable elevation connection thereto.

- 20 4. The improvement of claim 2, wherein each channel element carries a longitudinally spaced plurality of floor-contacting foot elements, each of which foot elements extends beneath said base and has a selectively adjustable elevation connection
 25 thereto, some of said connections being between said rail element and one channel side wall and other of said connections being between said rail element and the other channel side wall.

5. The improvement of claim 4, wherein said
 30 foot-element connections are in longitudinally spaced pairs, there being for each pair a foot element connected to said base between said rail element and one channel side wall and a foot element connected to said base between said rail
 35 element and the other channel side wall.

6. The improvement of claim 2, in which said last-mentioned means comprises a splice plate having orthogonal overall dimensions exceeding the width of said channel element, said splice plate
 40 configured for overlap with and for removably secured connection to each of the adjacent overlapping ends of the bases of two rail members in end-to-end longitudinally aligned adjacency.

7. The improvement of claim 6, in which said
 45 splice plate when secured to said adjacent rail members includes portions extending laterally on both sides of said rail members, each longitudinal end of each said spacer member and each of said portions being configured for removably securing
 50 and end of a spacer element to one of said splice-plate portions.

8. The improvement of claim 7, in which said splice plate is rectangular.

9. The improvement of claim 7, in which said
 55 splice plate carries, at each of the regions of rail-element channel overlap therewith, a pair of floor-contacting foot elements each of which has a selectively adjustable elevation connection to said splice plate, the elements of said last-mentioned pair
 60 being at locations symmetrically offset on opposite sides of the rail alignment in the overlapping rail element.

10. The improvement of claim 9, in which the foot elements of said last-mentioned pairs are at
 65 offset locations within the span between opposite

side walls of the overlapping rail-element channel.

11. The improvement of claim 7, in which each said spacer element is a channel which is upwardly open when secured to a splice plate, the side walls of
 70 spacer channels being of the same height as those of said rail-member channel, whereby said channel walls establish at modular spacings two dimensions of a horizontal plane of flooring support, and flooring extending between and carried by said
 75 channel walls.

12. The improvements of claim 2, in which flooring extending between and carried by said channel walls includes a flanged rectangular plate resting upon the adjacent side walls of two spaced
 80 parallel rail members, said flanged plate having end clearance with the spaced parallel rails of said two rail members and having parallel side flanges depending for substantially the span between said two rail members, said side flanges locating against said
 85 adjacent side walls to assure such end clearance.

13. The improvement of claim 12, in which the flange-to-flange width of said flanged plate is an integer submultiple of the unit length of said rail member.

14. A modular rollable base adapted to support two like front-access cabinet or the like modules in back-to-back relation, said base including a modular frame comprising like parallel downwardly open elongate channels at longitudinal ends of the frame,
 95 and an elongate longitudinal beam secured at its ends to the midpoints of said channels, said beam and said channels being of substantially the same height and establishing an H-pattern of continuous cabinet-module support in a single horizontal plane,
 100 shaft-mounting openings in the side walls of said channels on first and second longitudinal alignments at opposite lateral offsets from said beam, a separate axle element through each thus-aligned pair of channel-wall openings and having journaled rotational support in each channel wall, each said
 105 axle element projecting outward of each of its journaled supports, a wheel secured to each axle element between the locations of journaled support thereof, said wheel being of radius to derive rolling support from a horizontal rail surface at an elevation beneath said frame, a first tubular shaft element extending longitudinally between said channels and rigidly connecting the adjacent projecting ends of
 110 axles on one of said offset alignments, and a second tubular shaft element extending longitudinally between said channels and rigidly connecting the adjacent projecting ends of axles on the other said offset alignments, whereby said thus-interconnected axles provide enhanced structural integrity for said
 115 base.
 120

15. The base of claim 14, in which said rigid shaft-to-axle connection comprise diametrically pinned connection of axially overlapped tube and axle regions.

- 125 16. The base of claim 14, in which the wheels of one of said channels are double-flanged, for stabilised guidance with respect to both sides of an upstanding rail.

17. The base of claim 14, in which the wheels of
 130 the other of said channels are unflanged.

18. The base of claim 14, in which a sprocket wheel is carried by a projecting end of at least one of said axles, and remotely operable means including a sprocket chain engaged to said sprocket wheel for unitary driving of all axles connected to said one axle.

19. The base of claim 18, in which a second sprocket wheel is carried by a projecting end of the other axle of the channel which mounts said one axle, and means including a sprocket chain engaged to said second sprocket wheel for driving all axles connected to said other axle, in unison with the drive of all axles connected to said one axle.

20. The base of claim 18, in which said remotely operated means includes a hand wheel journaled for rotation in frame structure united to the channel which mounts said one axle, said frame structure extending upward of said base and adjacent to the associated end wall of cabinet modules carried by said base.

21. A modular cabinet or the like system for storage of books, files or the like, comprising a floor-mountable track system of parallel and end-to-end connected rigid modular rail members and rail-connecting spacer members adapted to establish plural parallel rails at cabinet-width modular spacing and to provide permanent guided support of one or more movable cabinet modules without anchorage to the supporting floor, whereby the track system can be readily moved, rearranged, expanded or otherwise modified, without damage to or modification of the supporting floor, and an end-to-end connected array of cabinet module base elements with spaced pairs of wheels at cabinet-width modular spacing and riding said rails at both ends of said array and at all rail locations therebetween.