~~AMENDED~~ CLAIMS ~~(Art 34 PCT)~~

1. A line protective guide for lines like for example cables~~,~~ or hoses ~~or the like~~, for a clean room application, comprising an elongate flexible encasement (100) which is displaceable reciprocatingly, ~~in particular with the formation of a direction changing arc (4) between two runs (1, 3),~~ and wherein the flexible encasement is closable at the ends by a respective clamping device (130) against ~~the~~ an escape of particles, wherein the encasement (100) includes at least one encasing unit (101,…1001) which forms at least one tubular receiving means (102, …1002) for guiding at least one line (6), wherein each receiving means (102, …1002) extends channel-like in a longitudinal direction (L) from a first end to a second end; and

wherein the encasement (100) has a plurality of said tubular receiving means (102, …1002) which extend parallel to each other to separately guide at least one line (6),

characterised in that

the ~~at least one~~ encasing unit (101, …1001) ~~laterally~~ at at least one receiving means (102,..1002) has at least one functional region (110,..1010) which extends in the longitudinal direction (L) and which includes two closure profiles (111, 112,..1011, 1012) of a closure, wherein one of the closure profiles (111,..1011) co-operates with the other closure profile (112,..1012) for dust-tightly closing an opened state in which a line (6) can be introduced or removed transversely relative to the longitudinal direction (L).

~~2. A line protective guide according to claim 1 characterised in that the encasement (100) includes an encasing unit (101,..1601) made of soft-elastic plastic, which is made in one piece.~~

~~3~~2. A line protective guide according to claim 1 characterised in that the ~~encasement (100) includes an~~ encasing unit (101,..1601) ~~comprising~~

comprises soft elastic plastic or flexurally elastic plastic~~, to which the at least one functional region (110,…1010) is preferably integrally connected~~.

3. A line protective guide according to claim 2 characterised in that the encasing unit (101, …, 1601) is made in one piece.

4. A line protective guide according to one of claims 1 to 3 characterised in that the encasement (100) includes a multiplicity of separate encasing units (101, 1401, 1601) and each encasing unit ((101, 1401, 1601) has two fixing strips (122, 1422, 1622) which are in opposite relationship on both sides and which are in one piece with the encasing units (101, 1401, 1601), adjacent encasing units (101, 1401, 1601) being connected together in parallel relationship by the fixing strips.

~~5. A line protective guide according to claim 4 characterised in that each encasing unit (101,...1601) has two closure profiles (111, 112,…1611,1612) in one piece with the encasing unit (101,...1601).~~

5. A line protective guide according to one of claims 1 to 3 characterised in that the encasement (400) includes a plurality of separate encasing units (101; 1401; 1601), and each encasing unit (101; 1401; 1601) forms precisely one tubular receiving means (102; 1202; 1602) for separately guiding at least one line (6) respectively.

6. A line protective guide according to one of claims 1 to 3 characterised in that the encasement (400) includes a one-piece encasing unit (401, 601, 1001, 1101) with subdivision means which forms a plurality of parallel receiving means (402, 602, 1002, 1102) and has at least two closure profiles (411, 412, 611, 612, 1011, 1012) in one piece with the encasing unit (401, 601, 1001, 1101).

7. A line protective guide according to claim 6 characterised in that provided for each receiving means (402, 1002) is a pair of co-operating

closure profiles (411, 412, 1011, 1012) in one piece with the encasing unit (401,...1001).

8. A line protective guide according to one of the preceding claims characterised in that each encasing unit (101,...1601) is of a cross-section ~~(L)~~ which remains the same in the longitudinal direction (L).

9. A line protective guide according to one of the preceding claims characterised in that the functional region (410,..1210) has two closure profiles (411, 412,..1211, 1212) of plastic which are in interengaging conjugate relationship and which co-operate as a closure for closing the at least one receiving means (402, 1202).

10. A line protective guide according to claim 9 characterised in that the interengaging closure profiles include a hook profile (1011) and a claw profile (1012) which co-operate in particular with a barb function and/or each closure profile includes two profile elements.

11. A line protective guide according to one of the preceding claims characterised in that there are provided two laterally oppositely disposed functional regions (110, 120) which each have a respective fixing profile (122), wherein the fixing profiles (122) are of mutually matching relationship for a releasable connection by positively locking and/or force-locking relationship and which preferably each have a closure profile (111, 112), in particular between receiving means (102) and fixing profile (122).

12. A line protective guide according to one of the preceding claims characterised in that the receiving means (102) are connected together in parallel relationship by strip-shaped intermediate regions which predetermine ~~the~~ a neutral fibre (H) ~~and/or at each closure comprising co-operating closure profiles (111, 112) the interface (113) is disposed at the level of the neutral fibre (H)~~.

13. A line protective guide according to one of the preceding claims characterised in that it comprises two support chains, each support chain being accomodated in a tubular encasement.

14. A line protective guide according to claim 13 characterised in that each support chain comprises individual chain links and/or each support chain is encased in a tubular encasement that has a larger cross-section than the tubular receiving means for receiving lines.

15. A line protective guide according to one of the preceding claims characterised by two end clamping devices (130; 1330) which fix the elongate flexible encasement (100) at the ends in the axial direction.

~~13~~16. An encasing unit (101,...1601) of plastic for an elongate flexible encasement (100) of a line protective guide, in particular according to the classifying portion of claim 1, wherein the encasing unit (101,...1601) ~~forms at least one~~comprises a plurality of tubular receiving means (102,..1602) for ~~guiding~~ separate guidance of respectively at least one line, ~~which~~ wherein each tubular receiving means extends channel-like in a longitudinal direction (L) from a first end to a second end;

characterised in that

~~the encasing unit (101,...1601) at one longitudinal side~~the respective tubular receiving means (102; … 1602) includes two co-operating closure profiles (111, 112,..1611, 1612) which extend in the longitudinal direction (L) from the first to the second end for dust-tightly closing an opened state in which a line can be introduced into or removed from the ~~at least one~~respective tubular receiving means (102,..1602) transversely to the longitudinal direction (L)~~and at least at the other longitudinal side includes a fixing profile (122,..1621, 1622) extending in the longitudinal direction (L) for a releasable connection to a further encasing unit (101,...1601)~~.

~~14~~17. An encasing unit (101,...1601) according to claim ~~13~~ 16 characterised in that the closure profiles (111, 112,..1611, 1612) ~~and/or~~

~~fixing profiles (122,..1621, 1622)~~ are of a cross-section which is the same throughout in the longitudinal direction (L) and respectively co-operate in interengaging relationship~~, wherein the closure profiles (111, 112,..1611, 1612) and fixing profiles (1021,..1022, 1522) preferably have co-operating profile elements of identical cross-section~~.

~~15. An encasing unit (401, 1101) according to claim 13 or claim 14 characterised in that it forms a plurality of tubular receiving means (402, 1101) for separate guidance of respectively at least one line.~~

18. An encasing unit according to claim 17, characterised in that the interengaging closure profiles include two profile elements that co-operate as a press closure or toothless sliding zip closure.

19. An encasing unit according to claim 17 or 18 characterised in that the encasing unit is made of flexuraly elastic plastic and wherein the encasing unit is closable at the ends by a respective clamping device against the escape from the flexible encasing unit of particles generated due to wear of lines.

20. An encasing unit according to one of the claims 17 to 19, characterised in that the encasing unit is a one-piece encasing unit (401, 601, 1001, 1101) with subdivision means and the encasing unit forms a plurality of parallel tubular receiving means (402, 602, 1002, 1102) for receiving the least one line and the encasing unit for each tubular receiving means has a pair of co-operating closure profiles (411, 412, 611, 612, 1011, 1012) in one piece with the encasing unit (401, 601, 1001, 1101).

21. An encasing unit according to one of the claims 17 to 20, characterised in that each encasing unit (101,...1601) is of a cross-section which remains the same in the longitudinal direction (L).

22. An encasing unit according to one of the claims 17 to 21, characterised in that the tubular receiving means are connected together in

parallel relationship by strip-shaped intermediate regions which predetermine a neutral fibre (H).

~~16~~23. An encasing unit (401, 1101) according to ~~claim 15~~one of the claims 17 to 22, characterised in that the encasing unit (401,1101) at one longitudinal side has a first fixing profile (421,…1121) and at the other longitudinal side a second fixing profile (422, ..1122) and the fixing profiles (421, 422,…1121, 1122) are of a mutually matching configuration for a releasable connection by positively locking and/or force-locking connection relative to each other in order to fix a plurality of structurally identical encasing units (401,...1101)~~s~~ releasably to each other.

~~17. An encasing unit (101, 1202, 1601) according to claim 16 characterised in that it forms precisely one tubular receiving means (102, 1202, 1602) for separate guidance of at least one respective line (6) and/or the receiving means (102, 1202) has two co-operating closure profiles (111, 112,..1211, 1212) extending in the longitudinal direction (L) and/or is produced closed in the a peripheral direction around the receiving means (102).~~

~~18. A clamping device (130. 1330) for end connection of a line protective guide according to the classifying portion of claim 1 at a connecting location including:~~

~~a first clamping portion (131, 1331) and a second clamping portion (321, 1332), wherein at least one clamping portion (131, 132, 1331, 1332) has an inside recess (1333) for receiving an end region (1305, 1307) of a line protective guide and two respective opposite ends (1334, 1335) transversely to a through-pass direction, wherein the recess opens at at least one first end outwardly, and provided in the recess (1333) of the at least one clamping portion (1331, 1332) at the inside is a pressure portion (1340) to hold an end region (1305, 1307) of the line protective guide in force locking relationship when the clamping device (1330) is closed, characterised in that the pressure portion (1340) is of a deformable

~~configuration and projects or protrudes in the through pass direction beyond the first end (1334) of the at least one clamping portion (1331, 1332) so that the pressure portion (1340) forms a corner protection at said end, (1334), wherein the pressure portion (1340) in the non loaded state forms at least one convexly curved surface (1342) at an inside facing away from the clamping portion (1331, 1332) for bearing against the line protective guide.~~

~~19. A clamping device (1330) according to claim 18 characterised in that at least one pressure portion (1340) is provided in each clamping portion (1331, 1332) and/or each pressure portion (1340) is made from a plastic material which is compressible and/or softer in relation to the clamping portions, in particular being soft elastic or rubber elastic or hard elastic, preferably as an extrusion profile, in particular a hollow chamber extrusion profile.~~

~~20. A clamping device (1330) according to claim 18 or claim 19 characterised in that each pressure portion (1340) in the non loaded state forms at least one convexly curved or outwardly bulged surface (1342) at the side facing away from the clamping portion (1331, 1332) and in cross-section parallel to the through pass direction and/or is arranged with its longitudinal extent extending perpendicularly to the through-pass direction over the overall width of the recess (1333).~~

~~21. A clamping device (1330) according to claim 18, claim 19 or claim 20 characterised in that each pressure portion (1340) has two rounded narrow sides (1344) and is preferably in the form of a symmetrical profile and/or each pressure portion (1340) has a projecting fixing rib (1346) for fixing in a transverse groove in the clamping portion (1331, 1332).~~

~~22. A clamping device (1330) according to one of claims 18 to 21 characterised in that received in each receiving means of the at least one~~

~~clamping portion (1331, 1332) in mutually juxtaposed relationship are two structurally identical pressure portions which are arranged parallel and perpendicular to the through pass direction, preferably at a spacing from each other, wherein preferably the one pressure portion (1340) projects at the one end (1334) and the other pressure portion (1340) projects at the other end (1334) of the associated clamping portion (1331, 1332).~~

~~23. A line protective guide according to one of claims 1 to 13 characterised by two end clamping devices (130, 1330) according to one of claims 18 to 23 which fix the encasement (100, 1300) at the ends in the axial direction.~~