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(21) International application number: PCT/CH99/00362 (22) International filing date: 4 August 1999 (04. 08.99) (30) Data relating to the priority: 98810760.3 7 August 1998 (07.08.98) EP (71) Applicant (for all designated States except US): KA-TE SYSTEM AG [CH/CH]; Leimbachstrasse 38, CH-8041 Zurich (CH). (72) Inventors; and (75) Inventors/Applicants (US only): HECHT, Reinhard [DE/DE]; Maximilianstrasse 14, D-93047 Regensburg (DE). MANSTORFER, Karl [DE/DE]; Maximilianstrasse 14, D-93047 Regensburg (DE). WYDER, Hans [CH/CH]; Novita Engineering, Isenrietstrasse 20, CH-8617 Mönchaltorf (CH). HÄUSERMANN, Christian [CH/CH]; Novita Engineering Isenrietstrasse 20, CH-8617 Mönchaltorf (CH). BUNSCHI, Hans [CH/CH]; Ka-Te System AG, Leimbachstrasse 38, CH-8041 Zurich (CH). WEINGARTEN, Marco [CH/CH]; Ka-Te System AG, Leimbachstrasse 38, CH-8041 Zurich (CH).		(74) Attorney: PATENTANWÄLTE, SCHAAD, BALASS, MENZL & PARTN; Dufourstrasse 101, Postfach, CH-8034 Zurich (CH). (81) Designated states: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO Patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With the International Search Report.

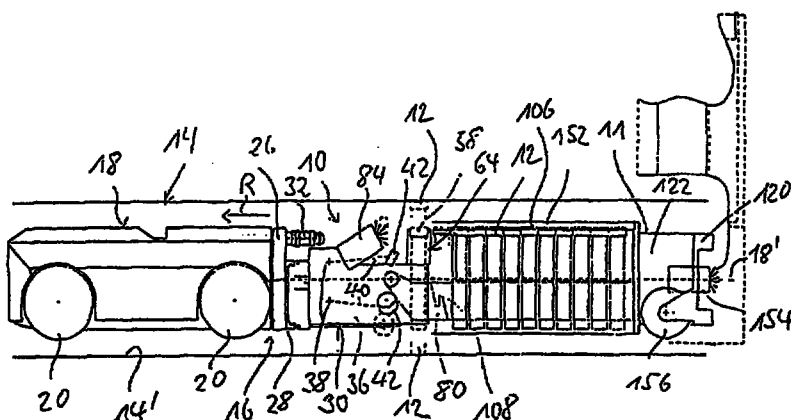
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(54) Title: DEVICE FOR MOUNTING AN INTERNAL CLAMP IN A PIPE WHICH IS NOT MAN-SIZED

(54) Bezeichnung: VORRICHTUNG ZUM MONTIEREN EINER INNENBRIDE IN EINEM NICHT BEGEBHAREN ROHR

(57) Abstract

The invention relates to a device (10) for mounting an internal clamp in a pipe (14) which is not man-sized. Said device comprises a mount (16) which can be movably supported in the longitudinal direction (R) of said pipe, on its internal wall (14'), as well as a clamp mounting head (64) which is placed on the mount (16) in such a way that it can move in a radial direction relatively to the longitudinal direction (18') of said mount and engage a part (58) of the internal clamp (12). The inventive device also comprises a pinion (88) which can rotate relatively to the clamp mounting head (64) and engage another part (12') of the internal clamp (12), said pinion being used to move away the internal clamp (12) as well as driving elements used to displace in a radial outward direction the clamp mounting head (64) in order to mount the internal clamp (12) by means of its displacement, and also used to rotate and turn the pinion (88). The inventive mounting device (10) can be used to couple a clamp carriage (11) which can be equipped with an interchangeable clamp magazine (106).



(57) Zusammenfassung

Eine Vorrichtung (10) zum Montieren einer Innenbride (12) in einem nicht begehbaren Rohr (14) umfasst ein an der Rohrrinnenwand (14') in Rohrlängsrichtung R beweglich abstützbares Gestell (16), einen am Gestell (16) bezüglich dessen Längsrichtung (18') radial bewegbar angeordneten, mit einem Abschnitt (58) der Innenbride (12) in Eingriff bringbaren Bridensetzkopf (64) sowie ein bezüglich des Bridensetzkopfes (64) aus- und einschwenkbares, mit einem weiteren Abschnitt (12') der Innenbride (12) in Eingriff bringbaren Ritzel (88) zum Aufweiten der Innenbride (12), und jeweilige Antriebsmittel, durch die zum Montieren der Innenbride (12) durch Aufweiten der Bridensetzkopf (64) radial nach aussen bewegbar und das Ritzel (88) ausschwenkbar und in Drehung versetzbar ist. Mit dieser Montagevorrichtung (10) ist ein Bridenwagen (11) koppelbar, der mit einem jeweiligen auswechselbaren Bridenmagazin (106) bestückbar ist.

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