Extracts only:

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Specification of Richard Profser To all to whom these presents shall Rich Profeer Come He Richard Profser of Bernings neer and Job butler of Lady Pool Lane near Birmingham aforesaid Gendeman Send Greeting Whereas her presents Most Excellent Majerty Lucen Victoria by Her Letters Patent under the Seal uppointed by the Freaty of Union to be used in the place of the great Scal of Scotland bear ing date at Edinburgh the twenty first day of March in the Seventh year ofher reign Icd for herself her heirs and suc colson Give and Grant unto us the said Richard Bropser and Job butter Her coper al Sicerce full power sole privilege and authority that we the said Kichard Rogher and for butter our execution administra. tors and afrigus or such other as we the said

said Richard Rofser and Job butter our Executors administrators or afrigue thould at any time agree with and no others from time to time and at all times dur. ing the term of years therein expressed thould and Cawfully night make use exercise and wend within that part of Her Said ollajesting United Kingdom of Great Britain and Ireland Called Scotland Our Invention of "Improvements in the ma. "Chinery lobe used in manufactur. ing plipes and Bars and in the applica. tionoffuel pipes and Bars tovarioussur. noses " in which said Lecter patent is contained a proviso that we said Richard Proper and Job Gutler should Cause an particular description of the nature of our Vaid devention and in what manner the Lame is to be performed to be involved in Her said ellajesty's Chancery within four Calendar Months nest and imme. diately after the date of the said infoan recited Letters Patent as in and by the lame reference being the reunto had will more fully and at large appear 2 Eors Export 250 that in compliance with the said proviso we the said Richard Profeer and Job Gutler do hereby declare that the nature ofour Invention and the manner in which the same is to be performes is particularly described and Oscertained in and bythe following onthe: ment in Writing reference being had to the Letter and figures therein contained and to the Drawings thereun to amexed Part

time as drawing such Jules on Man; drils the mondril being a necessary and important part of the mechanical apparatus in producing the welding Secondly we claim the welding of from or Steel Tubes by hammering whom a mandril at the same time we are drawing the Jube from the Fire along a Mandril sochat the Tube is welded on and drawn over a mandre at one process Thirdly we claim the applica: tron of either From orfiteel Jules when Coated with copper Brafs or other alloys of eletal in the construction of tabellar flues for Steam Boiler And fourthly we claim in the Construction of Tubular flues of Steam Boilers the application of welded Iron or Steel Jules which have been drawn through a circular hote or die or between Roller and which have been drawn over a Mandrel forche pur pose of smoothing the cotomal and in: ternal surfaces of the Tubes and for no. gulating the thickness of the elletal. We would have it understood that the four claims Casely hereinbefore defined relate only to that part of our invention which is illustrated on theet 13 of the Drawings hereunto annexed Another part of our Invention for manufacturing pipes out thewn in Sheet 14 bythe Drawings 1.2.3 4.5 and 6 where she same letters frefers refer tothe same parts in each of the draw ings. We combine three groved rollers B.C. one above another in the same manner

as they are used for rolling ship bots and place them in the front of the furnace us. ed for heating the shelp, and at a convenie ent distance from it within one of the grooves (2.2) of the rolls B. C. we place a moundail c'c and then place the heated "Thelp" whrough the said grove and over the mandiel C. C. and when the tube is so paper through this groove and u on the mandril two workmen take rold of the hot tube with Iron Long and remove it and the moudril together into the hole formed between the rolly C. D. by the meeting of the grower 3, 3, when the Lube being griped by the rolls is drawn of the Mandre The Groove 3.3 through which the Tube is rolled off the mandrel must be a little lefs chan the one through which itwas welled on to the mandalfin the first instance which will be the mean of more effectually weld: ing the Tube and compressing or reducing any fins or superfluous metal that may have arisen on the external surface of the Tube while being bassed the first time through the rolls - its it may be found Convenient or even necessary touse volls the grooves of which form an egg shapes hole (instead of a round one) He have shown apair of such rollers at Figure 5 .A. A are the standards or roll frame B.C. D the three rolls with grooves turned on their faces C, c is the mandril fixed be? tween the rolls C. D. for the purpose of draw. ing the Tube d' d'offit E is a slot artag

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	having wo holes g. g. cut in it, in which
	the neel e, afthe mandril is laid to hold
	it (the mandril) stationary and heep it
	directly in the centre of the rolls while the
	Tube is being rolled either on or off it
	He claim the application of three Rolls (com.
	build as above described) to the manu;
	facture di vroughe from lupes - fu was
	Well whereof the said for butter
	drougell and the Said Richard
	leave horainto set my hano
	Sentoenth day of July in mey
	Land Chrothousand eight num
	forty four (signed) fob [I.S.] Butler Jaken
	and acknowledged by Job Couler / party
	hereto at the bublic Office Southampie
	Buildings bleancery Lave in the county
	a Middlesex this notemin way 7
	And Thomsand orghe hundred and
	Low Before metsigned
Man Test	burgh the twentieth day of July
	year one thousand eight hunores our
	forty four This Specification is unous to
	the Records of fler Majorly chancery was
20 July 1844	land bume trenchald all Neill Serector of
	Said Chancery (signed) treha Mc neills la. D.

Drawing 14 of 14

