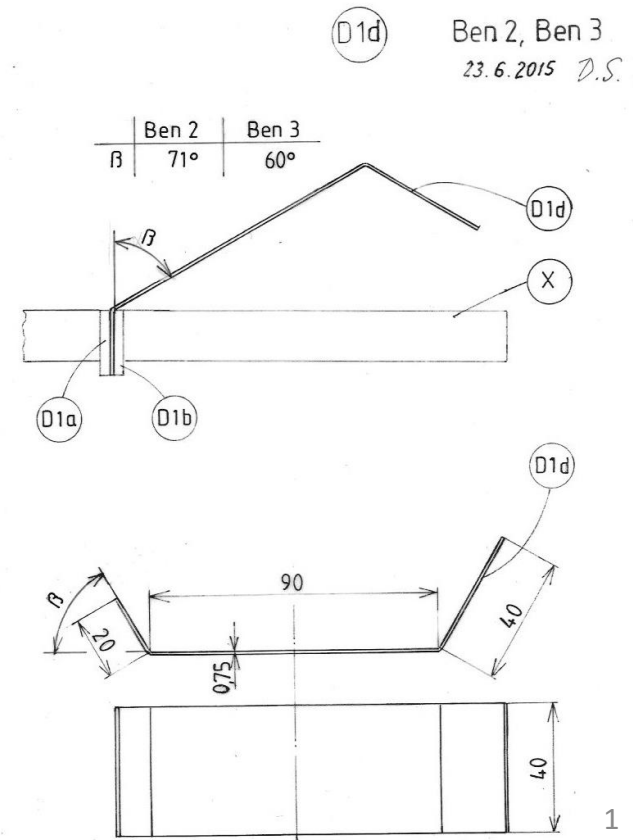
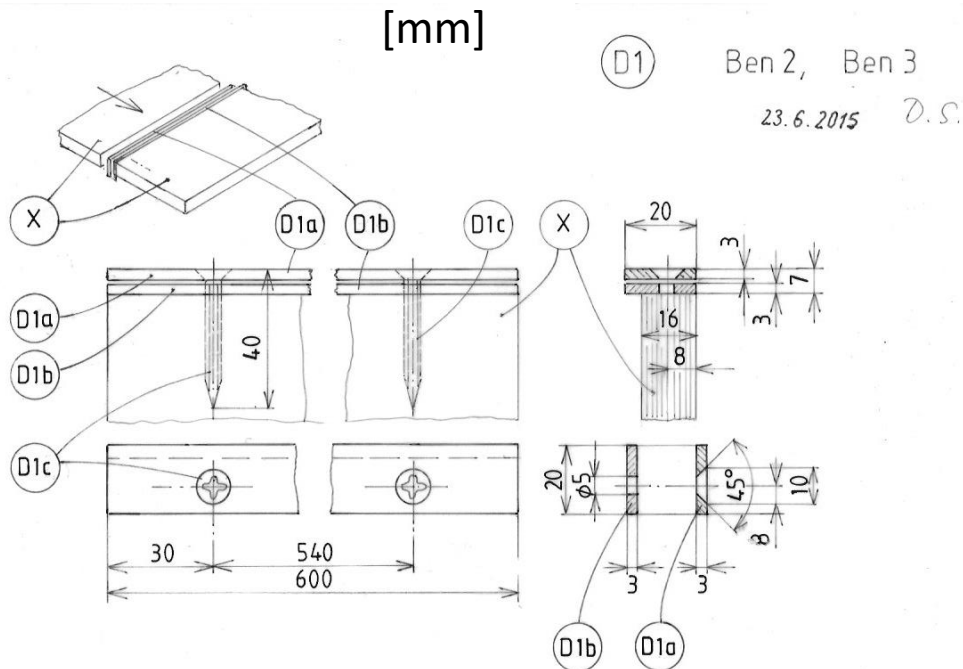


Ben 2 and Ben 3 – Firewood Stoves

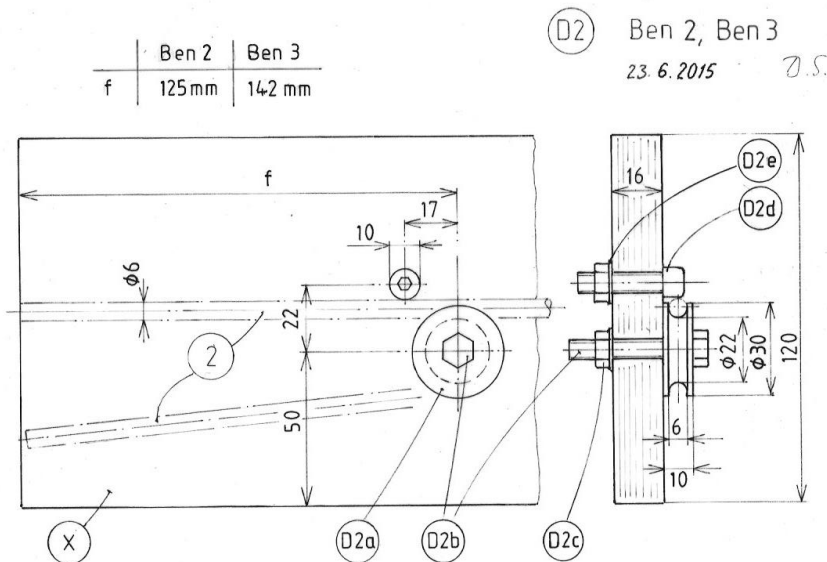
Annex C)

Drawings and List of Parts of Devices for Serial Production

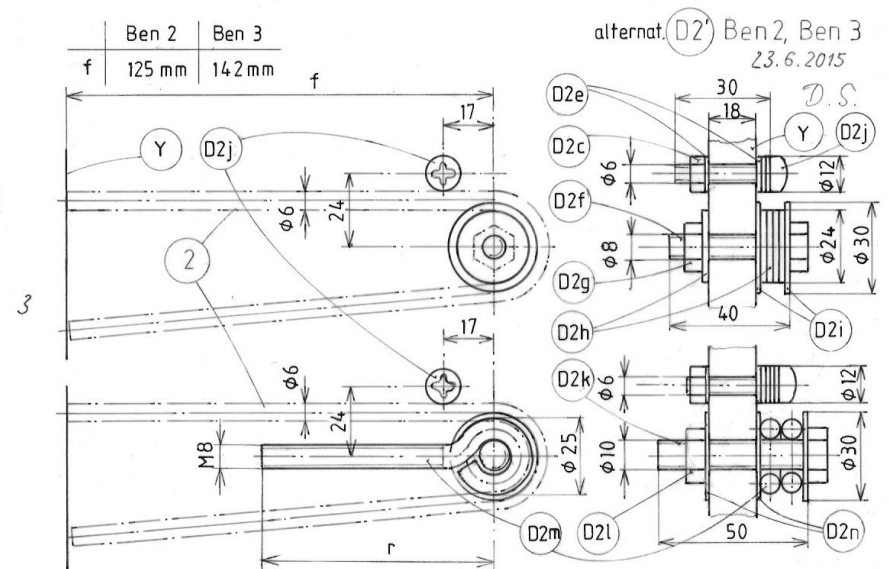
1. Device D1 for Bending Ash Pan (1) (2015 and May 2016)



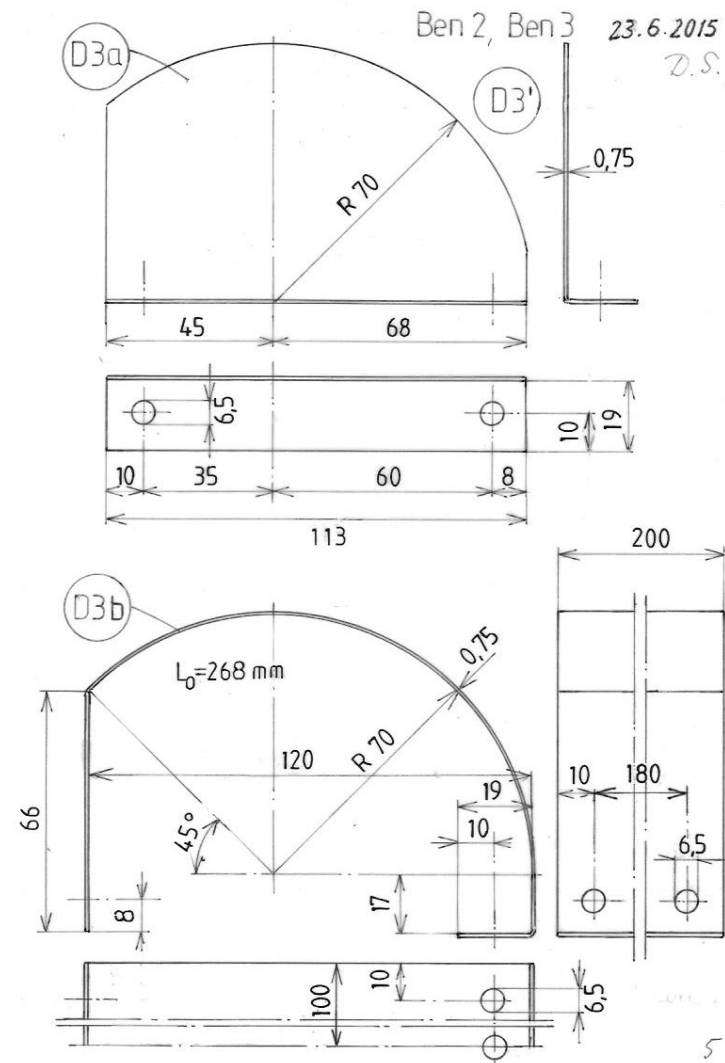
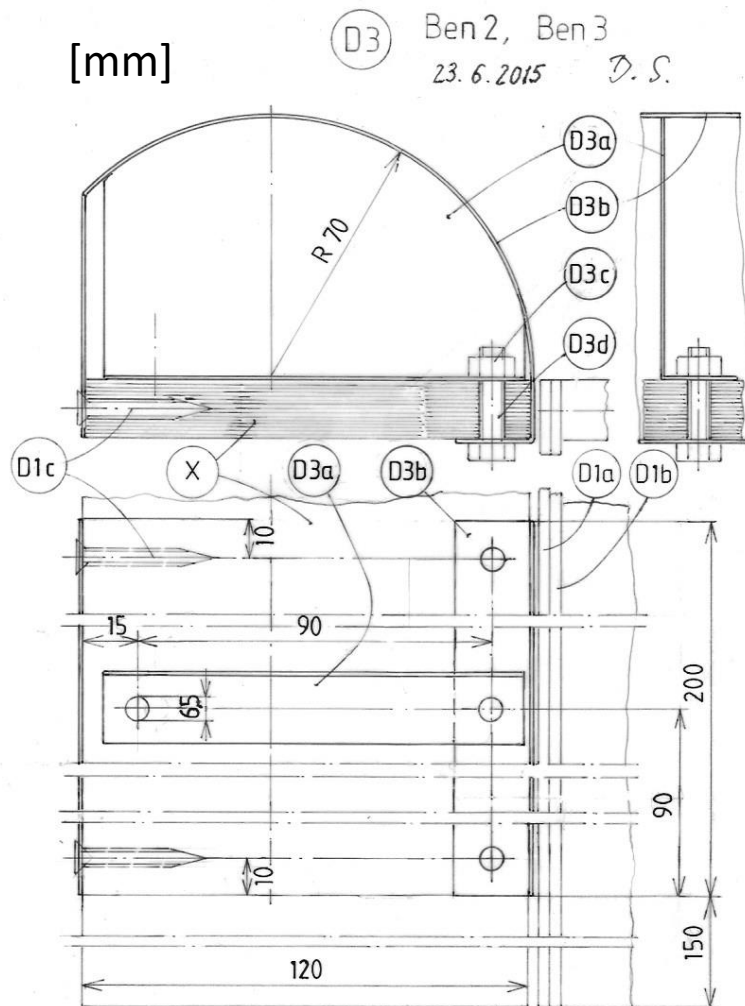
2. Device D2 Bending Grate Bar (2) (2015 and May 2016)



[mm]



3. Device D3 for Bending Stove Shell (3) (2015 and May 2016)



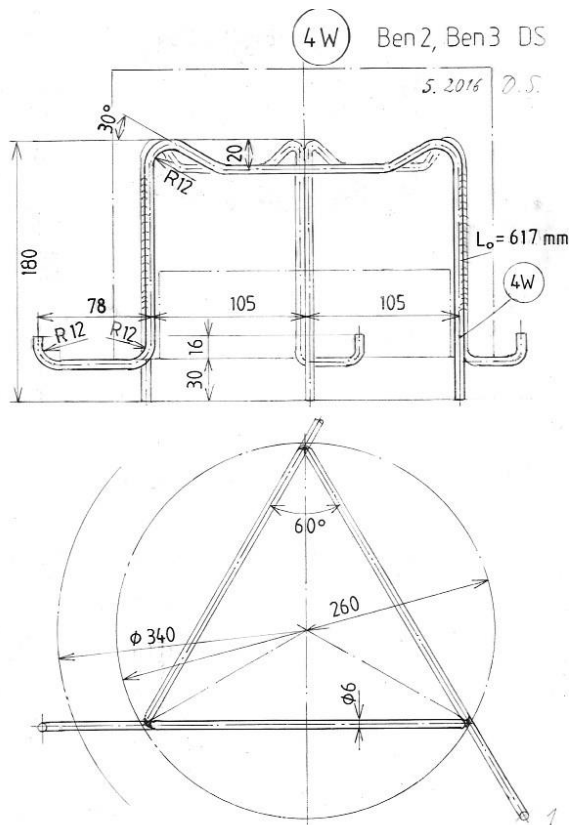
Dr.-Ing. Dieter Seifert, Neuötting

http://solarcooking.wikia.com/wiki/Ben_2_and_Ben_3_Firewood_Stoves

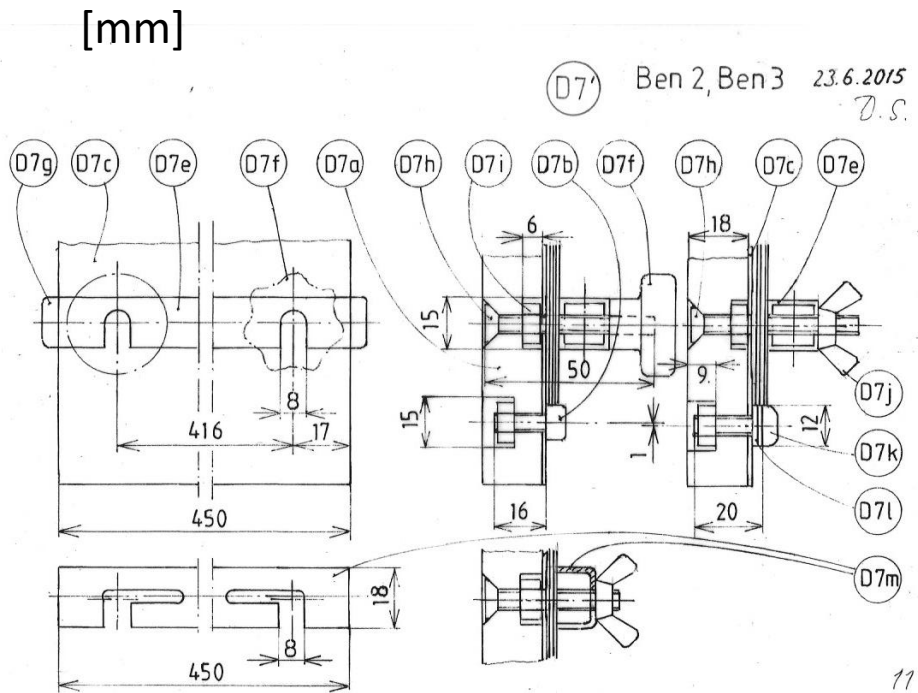
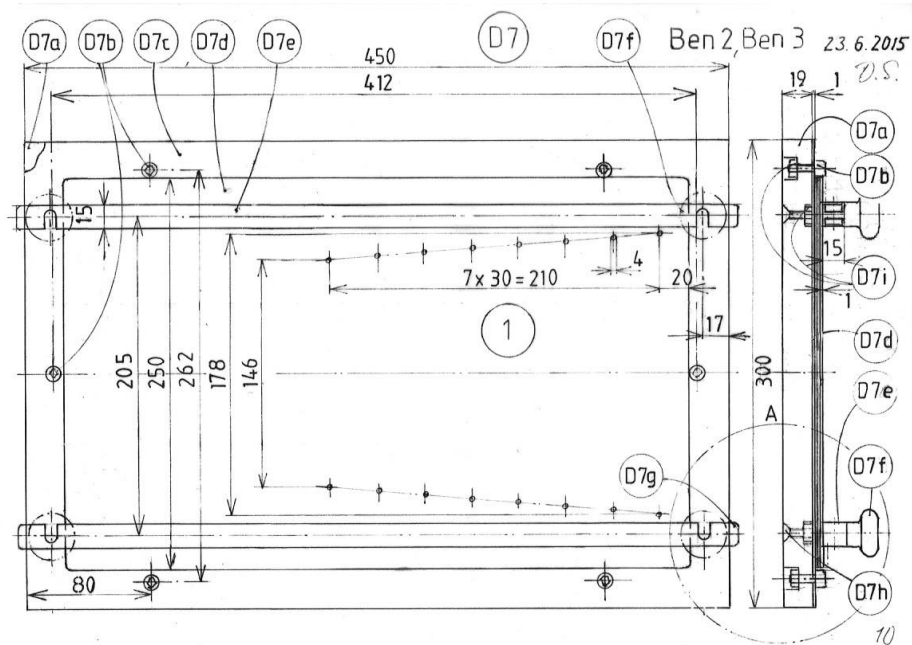
Annex C) May 2016

Devices (D4), (D5), (D6), (D9) and (D10) are replaced due to the recommended tripod (4W) made of round steel.

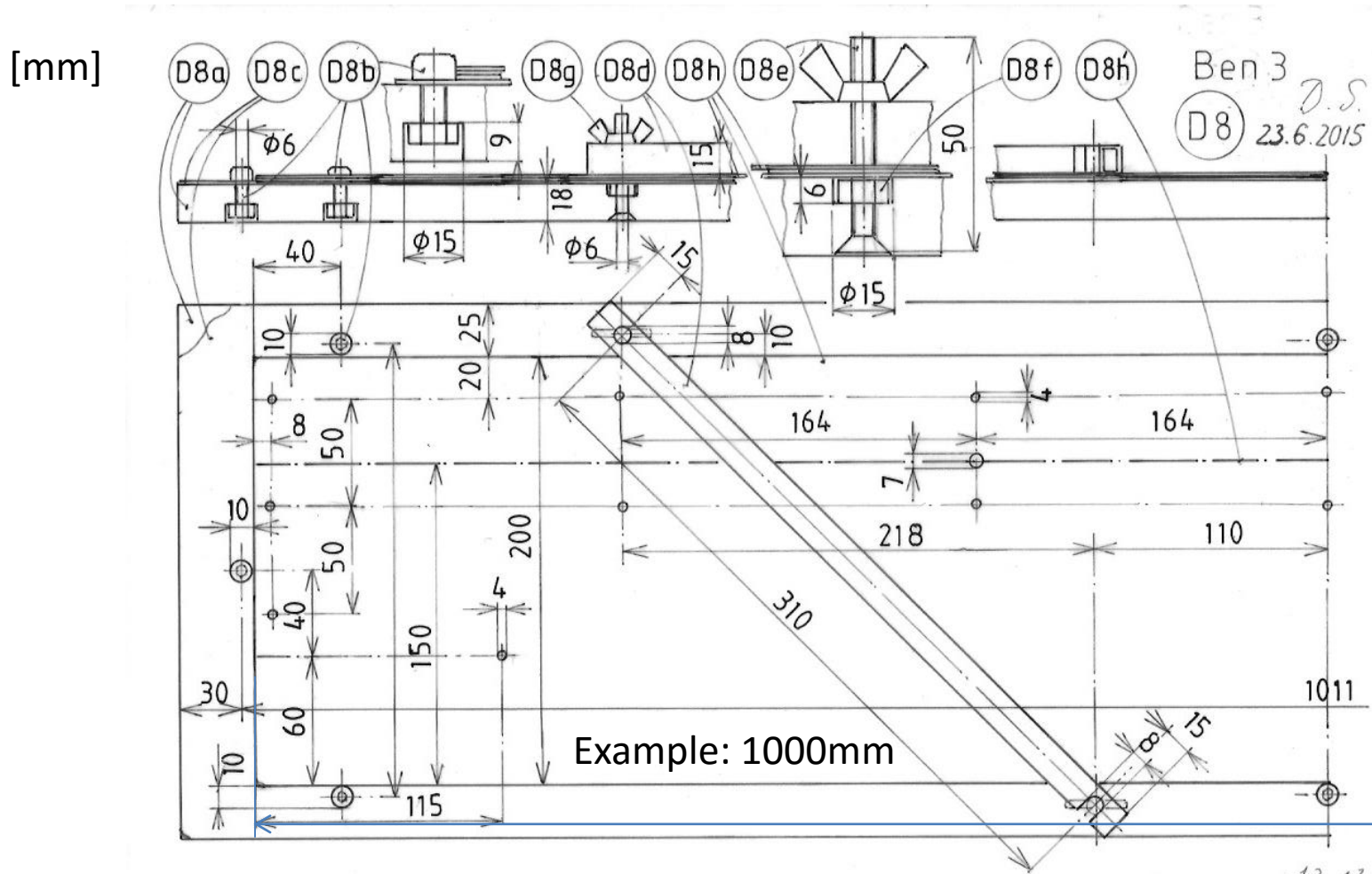
Annex E) contains the documentation of tripod (4W) including its production.



7. Device D7 Drilling Ash Pan (2015 and May 2016)



8. Device D8 for Drilling Stove Shell (2015 and May 2016)
(Example 1000 mm Length of Shell)



11. List of Pieces of Devices for Production of Fuelwood Stoves Ben2 and Ben3 (1)

List of pieces			12.05.2016								
Devices for serial production of stoves Ben2 and Ben3 with tripod of round steel						Dr.-Ing. Dieter Seifert					
Part Nr	Quantity of Pieces	Name	Nr of drawing./ resp. standard	Material	Thickness or Diameter	Width	Length	Cross section	Weight per part	Total weight	Notes/Alternatives (A:)
X		foldable work bench		wood and steel	mm	mm	mm	mm ²			
Y		work bench		wood and steel	30	700	2200				
Z		bench vice		steel							
D1	1	device for bending steel sheets	23.06.2015		mm	mm	mm	mm ²	kg	kg	
D1a	1	edge trim	D1a	strip steel	3	20	600	60	0,283	0,283	A: bending with bench vice and two connected angle steels instead of foldable work bench
D1b	1	edge trim	D1b	strip steel	3	20	600	60	0,283	0,283	
D1c	2	countersunk woodscREW	DIN 7997	galvanised steel	5 x 40						
D1d	1	template for ash pan	D1d	galvanised steel	0,75	40	150	30	0,035	0,035	
		wing screw	D1e	galvanised steel	M6 x 30						
D2	1	device for bending grate bar	23.06.2015								
D2a	1	rope roll	D2a	aluminium	30		10	2827,4	0,076	0,076	A: may be produced of washers with outer diameter 24mm and 30mm
D2b	1	hexagonal bolt	DIN 933	galvanised steel	M6 x 40						
D2c	2	hexagonal nut	DIN 555	galvanised steel	M6						A: M6 lens head srew with washers
D2d	1	socket head screw	DIN ISO 4762	galvanised steel	M6 x 30						
D2e	2	washer	DIN ISO 7089	galvanised steel	6,4 x 12						
D2o	1	steel tube (lever)	DIN 2394	steel	10 x 1	10	300	28,3	0,067	0,067	
D2' (alternat)			23.06.2015								
D2e	10	washer	DIN ISO 7089	galvanised steel	6,4 x 12						
alt. D2f	2	hexagonal bolt	DIN 933	galvanised steel	M8 x 40						
alt. D2g	2	hexagonal nut	DIN 555	galvanised steel	M8						
alt. D2h	5	washer	DIN ISO 7089	galvanised steel	8,4 x 24						=car wing washer
alt. D2i	5	washer	DIN ISO 7089	galvanised steel	8,4 x 30						=car wing washer
alt. D2j	2	bolt with Phillips head	ISO 4757	galvanised steel	M6 x 30						
alt. D2k	1	hexagonal bolt	DIN 933	galvanised steel	M10 x 50						
alt. D2l	1	hexagonal nut	DIN 555	galvanised steel	M10						
alt. D2m	2	eye bolt		galvanised steel	M8 x r						r = 25, 40, 50mm
alt. D2n	3	washer	DIN ISO 7089	galvanised steel	10,4 x 30						

11. List of Parts for Devices for Production of Fuelwood Stoves Ben2 and Ben3 (2)

D3	1	device for bending stove shell	23.06.2015								
D1c	2	countersunk woodscrew	DIN 7997	galvanised steel	5 x 35						
D3a	1	template support for stove shell	D3a	galvanised steel	0,75	115	90		0,061	0,061	
D3b	1	template to bend stove shell	D3b	galvanised steel	0,75	200	268		0,316	0,316	
D3c=D2c	3	hexagonal nut	DIN 555	galvanised steel	M6						
D3d=D2b	3	hexagonal bolt	DIN 933	galvanised steel	M6 x 40						
D4W	1	device for bending tripod of round steel see Annex E)		replaces devices D4), D5), D6), D9), D10)							see Annex E) for device D4W)
D7, D7'	1	device for punch marking and drilling	23.06.2015								
D7a	4	base board	D7a	wood	18	300	500		2,160	8,640	
D7b	6	socketed head screw (arrestor)	DIN ISO 4762	galvanised steel	M6 x 16						
D7c	1	cover plate	D7c	galvanised steel	0,75	300	500		0,883	0,883	
D7d	1	template for marking centres of holes	D7d	galvanised steel	0,75	400	250		0,589	0,589	
D7e	2	pressure piece	D7e	square tube alu.	15		450	56	0,068	0,136	A: square tube steel A: rail for shelves
D7f	4	star knob	DIN 6336	thread insert	M6						
D7g	4	plastic plug	15 x 15	black plastic	15 x 15						A: edges rounded with file
D7h	4	recessed countersunk flat head screw	DIN 7046		M6 x 50						A: wing nut M6 DIN 934 (D7j)
D7i=D2c	10	hexagonal nut	DIN 555	galvanised steel	M6						
alt. D7j	4	wing nut	DIN 934	galvanised steel	M6						
alt. D7k	6	bolt with Phillips head	ISO 4757	galvanised steel	M6 x 20						
alt. D7l	12	washer	DIN ISO 7089	galvanised steel	6,5 x 12						
alt. D7m	2	rail for shelves		coated steel	18 x 12	450					
D8	1	stove shell 1000x200mm and 1000x150mm	23.06.2015								
D8a	1	base board	D8a	wood	18	250	1071		3,856	3,856	
D8b=D7b	8	socketed head screw	DIN ISO 4762	galvanised steel	M6 x 16						A: M6 lens head screw with washers
D8c	1	cover plate	D8c	galvanised steel	0,75	250	1071		1,576	1,576	
D8d	1	pressure piece	15 x 1,5	square tube alu.	15 x 15	15	340	56	0,051	0,051	A: square tube steel A: rail for shelves
D8e=D7h	4	recessed countersunk flat head screw	DIN 7046	galvanised steel	M6 x 50						
D8f=D2c	12	hexagonal nut	DIN 555	galvanised steel	M6						
D8g=D7f	4	wing nut	DIN 315	galvanised steel	M6						A: star knob DIN 6336
D8h=D7g	2	plastic plug	25 x 25	black plastic	15 x 15						A: edges rounded with file
D8h	1	template for marking centres of holes	15 x 1,5	galvanised steel	0,75	1000	200	56	0,030	0,030	
Part Nr	Quantity of Pieces	Name	Nr of drawing./ resp. standard	Material	Thickness or Diameter	Width	Length	Cross section	Weight per part	Total weight	