1st edition
2nd edition 23-8-2012
3rd edition 17-3-2017

5 heller 1916 die catalogue

23-8-2011

DOA 1916 T, 5 heller part B, die catalogue shows the combinations in alphabetical order of the H-side.

Die combinations are bookmarked.

Pictures are better seen if you enlarge the percentage in the toolbar of Acrobat Reader

H1-D1 >--





“Thick coins”
120 # 73460 121# 73695 122 # 73814 124 # 73815 125 # 84069 126# 73816 130 # 73817

On some deep struck coins full left ornament of D-die is visible with a small piece broken off die next to it.

H1	D1
Double struck die, double lines at leaves top right. Filing lines through 5 and below right E.	Oval base of crown, “Modifiziertes Stempel” Line on top left of crown.





At left side of H-die and right side of D die small pieces broken off.
.

H2-D2 >-- (5)





“Thick coins”
180 # 73740 185 # 73726 186 # 101890

H2 Double struck die, double lines at leaves top right, 5 and R. Lower ends of twigs touch rim	D2 Straight base of crown. No cross on crown





A small dot appears above the rim at the bottom.

Most H2-D2 known to me show multiple striking.

H3-D3 >--





“Thick coins”
210 # 73466 212 # 73467

H3.cc Circle lines with central hole.	D3.hs Haircrack appears.



Self-strike of crown above 5.

H3-D3 + >--



Full self-strike in different position.
As there seem to be circle lines both sides of H, the H-die might not be H3 at all, but one not known yet as a separate die.

H4-D4 >-- (5)



“Thick coins”
240 # 73545

H4 Lower ends of twigs far from rim	D4.vs.br Filing line bottom right. Piece broken off die at left ornament



Most H4-D4 known to me show multiple striking.

H5-D5 >--





“Thick coins”
270 # 73457 271 # 73738 274 # 73459

H5.vs Filing lines above HELLER	D5.cc.vs Filing line above 16 and circle lines between 1 and 6 stay long visible. Piece broken off die at left ornament





Self-strike of crown left of top of 5.

H6-D6 >Io



“Thick coins”
300 # 73470 302 # 73471 304 # 73541

H6.vs Filing line right Double struck die, twig left	D6.vs Filing lines bottom right



Shifting die position, line shown in upper picture is not actual coin, but represents a position in-between upper and lower coin.

H6-D6 +





H6.br
Piece broken off die top right.
Haircrack from bottom to left L.





Lines faintly visible

H7-D7 >--



“Thick coins”
330 # 73406 331 # 101951 333 # 77291 335 # 73594 336 # 73458 337 # 75356

H7.vs Filing lines below HELLER	D7.cc.vs Filing line lower part and circle lines in 1916 Tip of left ribbon weekly struck.



Self-strike of twigs at bottom D-die.

H8-D8 >-- (5)





“Thick coins” (2 H8-D8 were seen in a lot of 15 coins described as being 3.0 - 3.7 grams)
359 # 73468 359e # 96943 360 # 73517 360e # 88406

Might be confused with H25-D25 with similar piece broken off at bottom right end of twig.

H8.br Piece broken of die bottom right.	D8.vs Filing lines bottom right. No crown visible.





Most H8-D8 known to me show multiple striking.

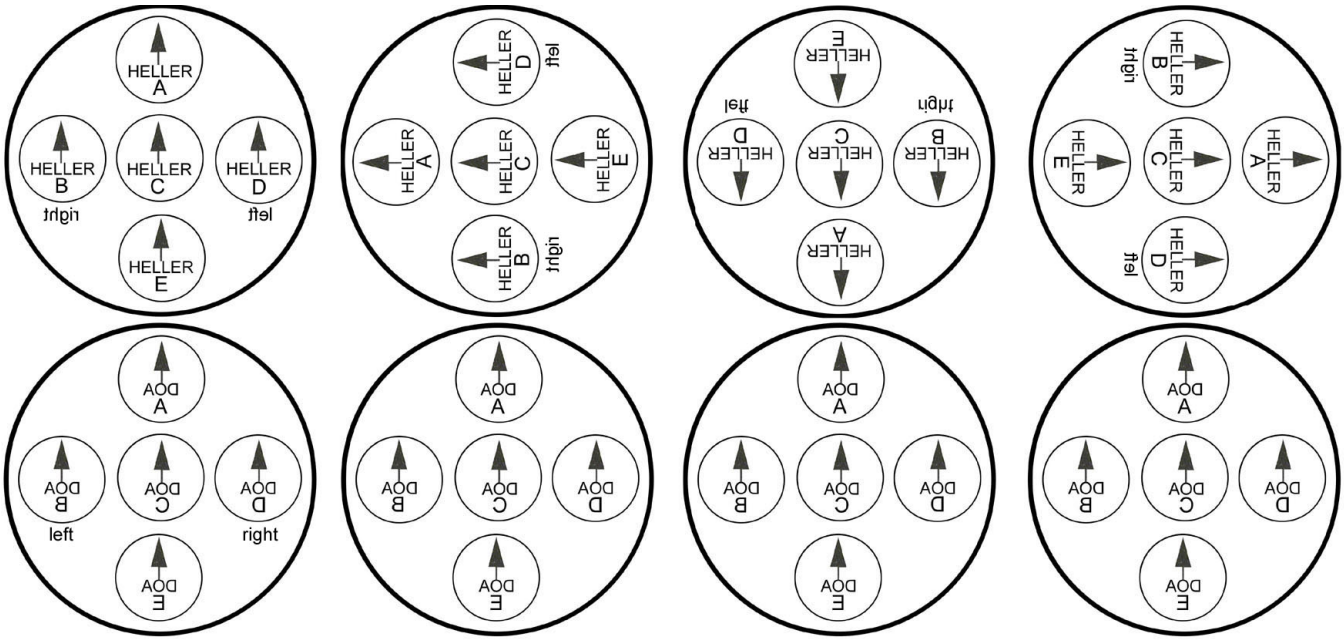
H8-D11 >-- (5)



Die axis turned 90 degrees position 1

370 # 167370

H8.br See H8-D8.	D11 See H11-D11



It must have been possible to place the blocks with the “fiver” dies on top of each other in four different positions. If the DOA block was the lower one, the HELLER block must have been put on top of it turned 90 degrees left to produce this H8-D11 coin. Thus, looking at the blocks with the dies facing upwards, H8 would be the anticlockwise nabour of H11 along the rim of the HELLER block and D8 the clockwise nabour of D11 in the DOA block.
For all fiver dies coins may be found with die axis turned 90 degrees in position 1.

“Fiver” dies see: http://www.zeno.ru/showphoto.php?photo=73749 and
http://www.zeno.ru/showphoto.php?photo=89408

H10-D10 >-- (5)





“Thick coins”
420 # 73542

H10	D10
Double struck die. Bottom of H left of H and of T (?) between leaf and berry bottom left. Dent in bottom end of twig left.	Cross hardly visible. Abrupt change of direction of inner side of left ribbon near crown.





Most H10-D10 known to me show multiple striking.

H11-D11 >-- (5)



“Thick coins”
449D # 109890 450D # 73735

Shifting die position exactly 12 o’clock. But for die rotation H11-D11 = H11A-D11A

H11	D11
Lines at T and twig bottom right. Top right of left L not struck. Small twisted triangle in left E.	Straight bottom of crown. Cross not visible.



Small piece broken off at bottom D-die.
Most H11-D11 known to me show multiple striking.

H11A-D11A >-- (?)



“thick coins”
460D # 73596

Dies rotated 3 degrees. But for die rotation H11-D11 = H11A-D11A
Known from just one coin.

H11A = H11 Top of left L	D11A = D11 Straight bottom of crown. No cross visible. Piece broken of die at bottom

H13-D12 >lo



“thin **coins”**
480 # [73544]

H13 was used afterwards in combination with D13.

H13.hs Haircrack from middle right over ER to bottom right.	D12.vs/hs Filing line or haircrack at end of right ribbon.

H13-D13 >lo



“thin **coins”**
501 # 73503 502 # 73489 503 # 77028 504 # 73490 506 # 77029

H13 was used before in combination with D12.

H13.hs	D13.vs
Haircrack from middle right over ER to bottom right.	Filing lines on large parts of die.



Additional haircrack from bottom over right L.

H14-D15 >lb



“thin **coins”**
550 # 73477 552 # 73628 553 # 77276

D15 was used afterwards in combination with H15.

H14.cc.vs.hs Remnants of circle lines, filing lines right of 5. Haircrack right.	D15.vs Filing line below right ribbon.



Additional haircracks from bottom upwards.

H14-D15 + >lb



Haircrack on D-side above left ribbon.

H15-D15 >lb



“thin **coins”**
558 # 73689 560 # 73472

D15 was used before in combination with H14. H15 was used afterwards in combination with H16.

H15.cc	D15.cc.vs.hs
Circle lines in and below LER	Filing line below right ribbon. Circle lines between crown and left ribbon. Haircrack over left ribbon.



Haircrack on H-side, self-strike on D-side.

H15-D16 >lb



“thin **coins”**
570 # 73474 570DS # 86399 571 # 73627 573 # 73552

H15 was used before in combination with D15.

H15.cc.hs.zs Last remnants of circle lines. Haircrack right. Self-strike of crown in twig top left.	D16.vs.zs Filing lines around crown and in D. Self-strike of leaves above crown. Left ornament doesn’t touch rim.



Self-strike on D-side disappears.

H17-D17 >lb



“thick & thin **coins”**
558 # 101838 600 # 77026 602 # 77027 604 # 77203

H17.cc.vs	D17.cc.vs
Circle lines in and below LER. Filing line at bottom	Circle lines in O and between crown and right ribbon. Filing lines in many places.



Self-strike on both sides.
Harking of 191 and DO and splash at 6 near similar to those on H19-D19

H18-D18 >lb



“thin **coins”**
630 # 73501 631 # 73629 631b # 73473 632 # 73502 633 # 93643

Right side of D-die always weak

H18.vs Bottom of 5 not fully struck. Filing lines below R and at T.	D18 Nothing remarkable.



5 gets normal. Self-strike below leaf to the right of 5 becomes a constant. Some coins show self-strike of D bottom right. On D-side more or less pronounced self-strike of leaves above the left side of the crown in different positions. Changing ways of harking of 19.

H18-D18 + >lb



Dies start fading away.

H19-D19 >lb



“thin **coins”**
660 # =101959 663 # 101960

Very similar to most of 990 unidentified coins, see last pages.

H19	D19
Stike-out/filing? lines in ER	Harking of 191 and DO. Slash at 6 and right ribbon.



I would be very interested in pictures of coins with similar splash, but without harking.

Harking of 191 and DO and splash at 6 near similar to those on H17-D17

H20-D20 >lb



“thin **coins”**
690 # 73546 692 # 93649 696 # 76063 697 # 77204 700 # 77205

H20.cc.vs Circle lines in and below LER. Filing lines mostly top right.	D20.cc.vs Circle lines where no filing lines. Filing lines below crown and bottom right.



Self-strike of ribbon above H and of bottom of 9 to right of T.

H20-D20 + >lb





Advancing self-strike in different positions.

H21-D21 >-- (?)





“thin **coins”**
713 # 87987 715 # 86685 717 # 89160

H21.vs	D21.vs
Filing lines bottom left, in HE, at 5, L and T.	Filing lines at 6 and between 16 and OA. Small irregularity at rim bottom right.





Haircrack bottom right H-side?.

H22-D22 >-- (?)



“thin **coins”**
730 # 88371

H22 was used afterwards in combination with D23. Don’t confuse with H24-D24

H22.cc.vs Circle lines around. Filing lines above and below LER Double struck die, double lines below knot & twig and leaf bottom right.	D22.cc.hs Plenty of circle lines. Haircrack at ribbon right.



H22-D23 >-- (?)



“thin **coins”**
735 # 93984 736 # 73491

H22 was used before in combination with D22, D23 afterwards with H23

H22.cc.vs.hs Haircrack bottom right	D23.cc.vs Circle lines in DO. Filing lines top left and below 16.



Piece broken off below haircrack.

H23-D23 >-- (lb)



“thin coins” as a rule, one coin known 5,88 grams
740 # 73577 740T # 180279 741 # 76809 742 # 88400 743 # 73551 743c # 77283 743d # 101969

D23 was used before in combination with H22.

H23.cc.vs Double struck die, double line below twig bottom left and double lines middle right at R, berries and leaves. Double lines left better visible on later coins Small piece of circle line left between leaves. Filing line right of 5 stays long visible.	D23.cc Circle lines in DO and below visible



Self-strike of crown above 5. Harking of hole in 9. Double lines right and self-strike at top will fade, small pit between right L and E stays visible. Double lines left clear.

H23-D23 + >-- (lb)





Self-strike on H-die disappears.
On D-side self-strike of 5 and L at top of 1. As die rotation varies and self-strikes must have occurred more than once in different positions you might get the impression they don't stem from the same pair of dies. Constant is they (near) touch the 1.

H24-D24 >lb



“thin **coins”**
760 # 88941 762 # 73407 764 # 73737

Change in die rotation

H24.zs Double struck die, see E in E Rim deformation middle right. Self-strike between top leaves. Splash starts at berry to the right of 5	D24.zs Roughness in 6 and between crown and ribbons Self-strike above ribbon left.



Self-strike also top left of 5. Splash develops further. On D-side self-strike of 5 below crown. At right ribbon haircrack or splash-line? Don’t confuse with H22-D22

H24-D24 + >lb





Full splash, compare H25-D26

H25-D25 >lb





“thin **coins”**
780 # 76808 781 # 77272

H25 was used afterwards in combination with D26

H25.vs.br Filing lines above ER. Small piece broken off at bottom of twig right.	D25.cc Circle lines inside and around crown.





Self-strike of crown top left. Splash starts at berry right of 5. On D-side piece broken off at end of left ribbon, self-strike of leaf left of cross.

H25-D25 +



Cracks form in crown.

H25-D26 >lb



“thin **coins”**
785 # 73696 785e # 101972 786 # 73742

H25 was used before in combination with D25

H25.br.zs Splash advances	D26.vs.zs Filing lines between 1 and ribbon and in and below 1916. Self-strike above ribbon left and of 5 below crown.



Full splash, compare H24-D24.

H28-D28 >--





“thin **and thick coins”**
839 # 98614 840 # 88404 842 # 77206 843 # 101992

H28.cc.vs Circle lines in middle & lower part of coin. Filing line in 5 Bottom right twig touches rim, left nearly	D28.cc Sporadic circle lines. Filing lines in 91 and at A.





Self-strike heller below crown.

H28-D28 + >--



unidentified double 980 struck coins



980 # 73719 980m # 73741 980n # 89101 980p # 89346 980r # 101995 980t # 102068

2011 I had 48 pictures of multiple struck 5 heller coins. Of these 38 could be identified as being struck by the 5 heller machine (see 73749 , 89408 & 98701) and 3 as struck by the big machines (86399 , 73696 bottom left & 98614 golden background). The remaining 7 are linked above.

6 of these have straight bottom crowns, which can be attributed to the 5 heller machine.
Further identification will have to wait until more is know about the moment when pieces did break off D4 and H.

If you have multiple struck coins, please send me a picture.

unidentified single 990 struck coins





990 # 73595 990a1 # 73504 990a2 # 73543 990a3 # 73518 990b # 73736 990c # 73734 990d # 102070

Quality of coins and/or pictures found on internet sometimes was just to bad to give any hope for determination. These deleted, 2011 there were 17 coins left that escaped identification.
Very probably they stem from just 1 or 2 die combinations. Possibly even a not yet recognized one.
As far as I can judge all but 1 (990d) are thin coins

You are always welcome to send pictures of coins you can't identify.