

INSULAR GLASS AND AMBER STUDS,
SEVENTH TO TWELFTH CENTURY AD:
DATING, CHRONOLOGY AND WORKSHOP PRACTICE

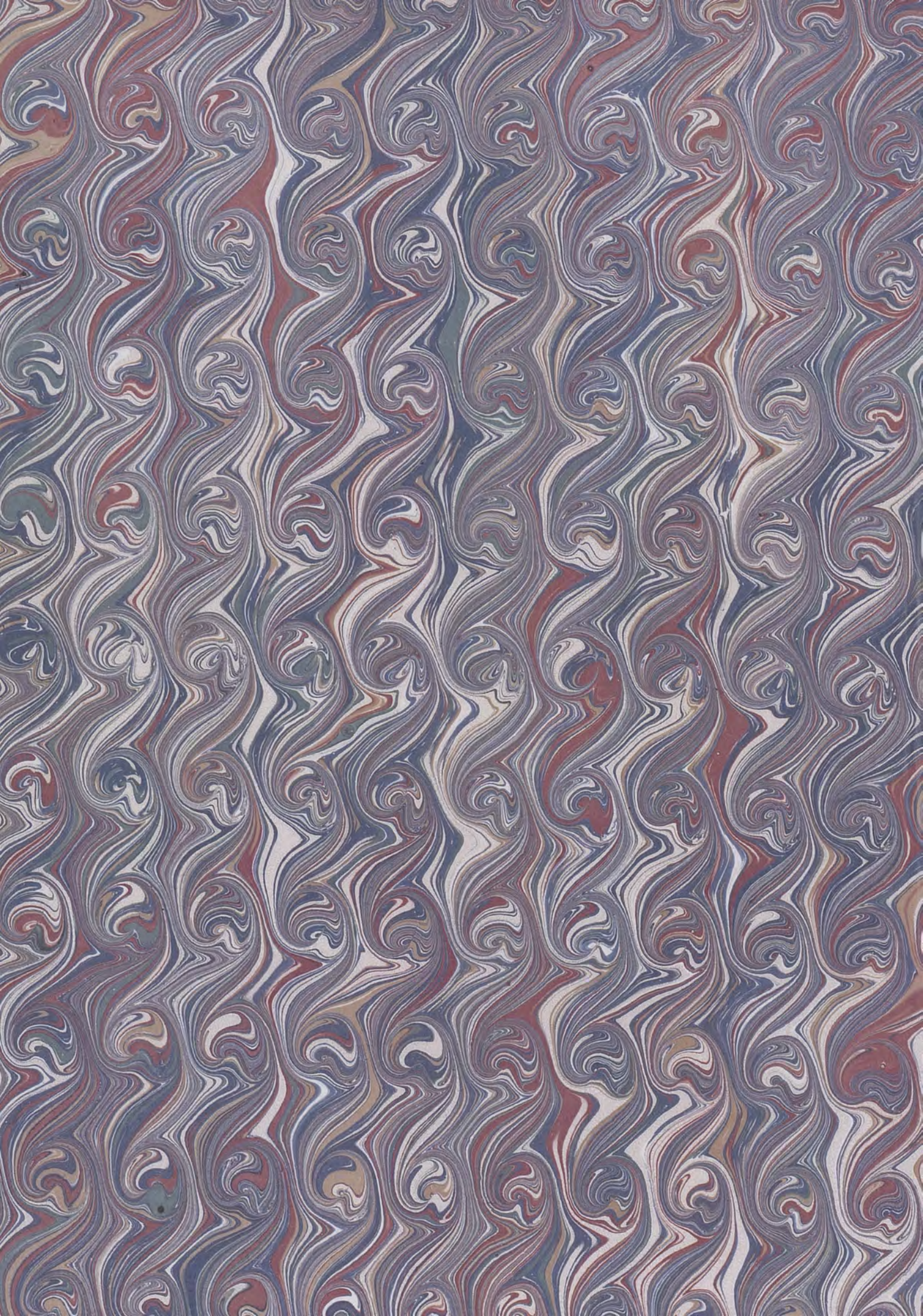
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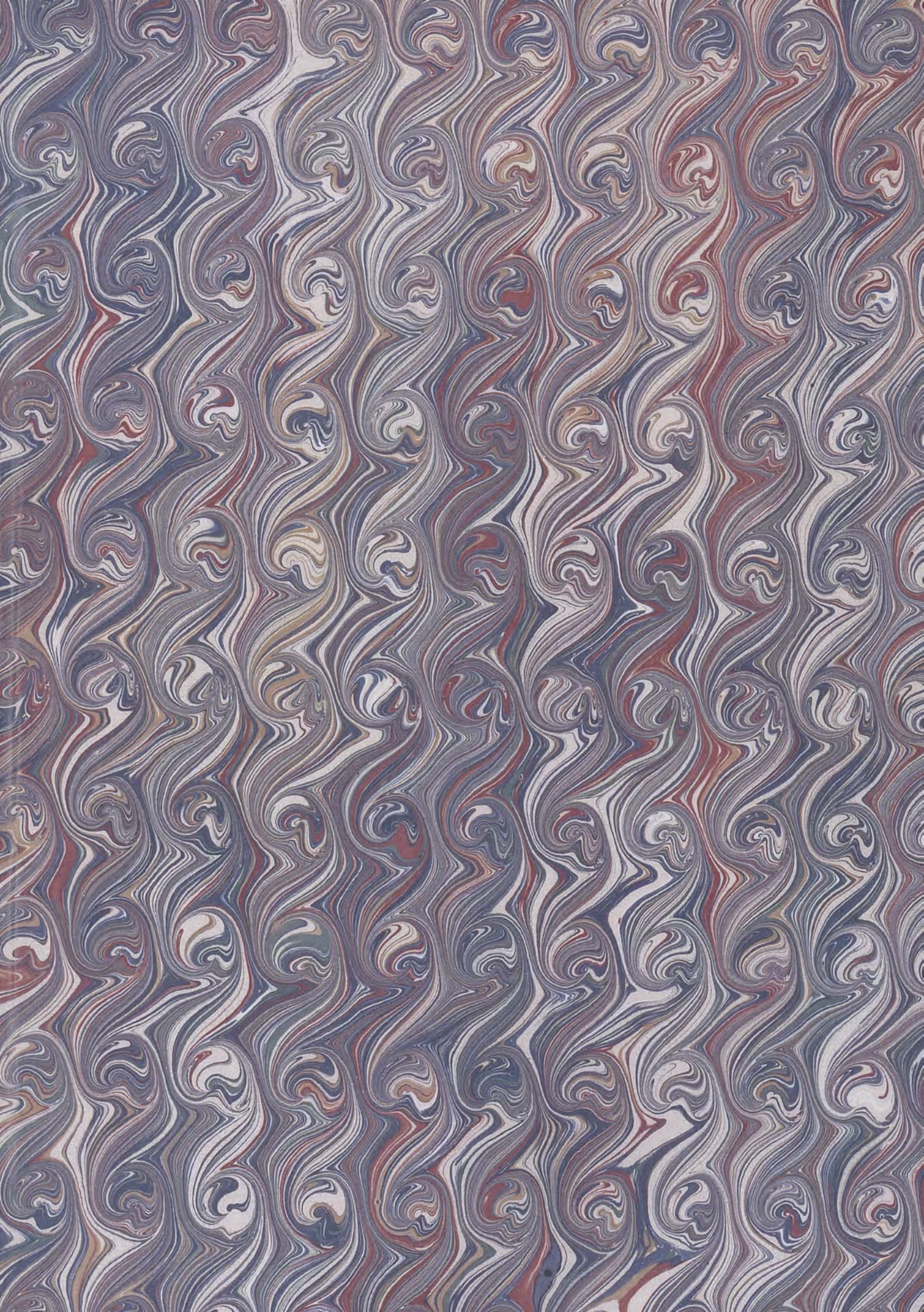
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VOLUME II

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Figure 1

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Figure 2
Book of Kells, *folio 32v*, Co. Meath, c. 800, Library, Trinity College Dublin, (MS58).



Figure 3
Book of Kells, *folio 129v* Co. Meath, c. 800, Library, Trinity College Dublin, (MS58).



Figure 4
Flabellum motif, Carndonagh cross, Co. Donegal, c. 800.



Figure 5
Moylough beltshrine, Co. Sligo, (CAT.7), eighth century, National Museum of Ireland (NMI1941:81).



Figure 6
Frankish belt-buckle, seventh century, Metropolitan Museum of Art, (17.193.161).



Figure 7
'Tara' brooch, obverse, Bettystown, Co. Meath, (CAT. 4), eighth century, National Museum of Ireland, (NMI R4015).



Figure 8
Hunterston brooch, Argyll, seventh-eighth century, National Museum of Scotland,
(NMS XDFC8).



Figure 9
Disc brooch, Kingston Down, Kent, seventh-century, Liverpool World Museum, (M6226).



Figure 10
Langobardic disc brooch, seventh century, Roman cameo second to fourth-century, Metropolitan Museum of Art, New York. (95.15.101).



Figure 11 (a)
Coffret of Teuderic, Southern-Germany, sixth-seventh century, Treasury of the Abbey of St. Maurice d'Agaune. (Inv.5).



Figure 11 (b)
Detail of the Coffret of Teuderic, Southern-Germany, sixth-seventh century, Treasury of the Abbey of St. Maurice d'Agaune. (Inv.5).



Figure 12
Cup of St. Martin, Burgundy, late fifth to sixth century, sardonyx vessel first-century,
Treasury of the Abbey of St. Maurice d'Agaune, (Inv.4).



Figure 13
Detail of the Derrynaflan strainer-ladle, (CAT. 3.1 and 3.2), eighth century, National Museum of Ireland, (NMI 1980:7).



Figure 14
Detail of stem, Ardagh chalice, Reerasta, Co. Limerick, (CAT.9), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 15
 Derrynaflan ring, Co. Tipperary, (CAT.2), eighth century, National Museum of Ireland, (NMI 1980: 5).



Figure 16
 Gilt embossed foils, trichinopoly and stud (CAT.1.29), side of the Derrynaflan paten
 Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 17
Riveting on the interior of the bowl, Ardagh chalice, Reerasta, Co. Limerick, (CAT.9), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 18
Emly house-shaped shrine, eighth century, Museum of Fine Arts, Boston, (52.1396).



Figure 19
Coolure Demense plaque (CAT.14.1), Co. Westmeath, eighth century, National Museum of Ireland, (NMI 1958:20).

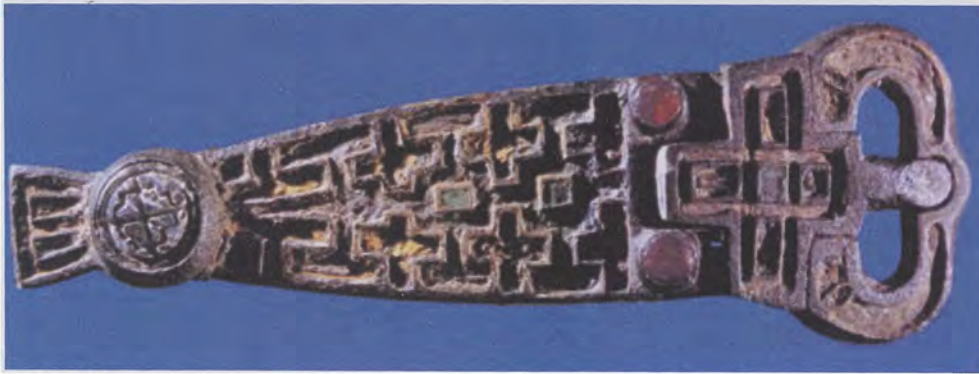


Figure 20
Lough Gara belt-buckle, Co. Sligo, glass stud,(CAT.8.1), amber studs (CAT.20.1) seventh to eighth century, National Museum of Ireland. (NMI 1958-20).



Figure 21
Bronze fibula with enamel insets, Lough Ree, Co. Longford, first century AD, National Museum of Ireland, (NMI 499:23).



Figure 22
Dowris latchet, Co. Offaly, sixth century, British Museum, (MLA1854-14.97).



Figure 23
Battersea Shield, detail, London, 350 BC-50BC, British Museum, (MLA 1857,0715.1).



Figure 24
'Tara' brooch, reverse, Bettystown, Co. Meath, (CAT. 4), eighth century, National Museum of Ireland, (NMI R4015).



Figure 25
Derrynaflan chalice Co. Tipperary, (CAT.19), ninth century, National Museum of Ireland, (NMI 1980:6).



Figure 26
Shrine of St. Patrick's Bell, twelfth century, National Museum of Ireland, (NMI R4010-1).



Figure 27
Trichinopoly, embossed foils and glass studs on the underside of the foot of the
Ardagh chalice, Reerasta, Co. Limerick, (CAT.9), eighth century, (NMI 1874:99).



Figure 28
Clonmacnoise crozier, Co. Offaly, eleventh century, National Museum of Ireland, (NMI R2988).



Figure 29
Silver beaded wire and filigree on a stud mount, Ardagh chalice, Reerasta, Co. Limerick, (CAT.9.1), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 30
Ardagh chalice, Reerasta, Co. Limerick, (CAT.9), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 31
Derrynaflan paten, Co. Tipperary, (CAT.1), eighth century, National Museum of
Ireland, (NMI 1980: 4).



Figure 32
Tassilo chalice, Kremsmünster, Anglo-Saxon style, c.770-90, Benedictine Abbey,
Kremsmünster, Austria.

genit achiā	tionem bab glo
achas h genit	uis. & post ara
ezechia meze	us migratione
chias autem	babilonis. le
genit manas	chomias genit
sem manasses	salachiel sala
h genit am	thiel h genit
os amos autez	so ro babel so
genit iosiam	ro babel autez
iosias h genit	genit abiud
iaco hiam &	abiud autem
pratores eius	genit eliachi
in cras migra	eliachim

Figure 33

Book of Kells, folio 30v Co. Meath, c. 800, Library, Trinity College Dublin, (MS58).



Figure 34

Rock-crystal gemstone on the Underfoot mount of the Ardagh chalice, Reerasta, Co. Limerick, (CAT.9), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 35

Detail of the Moylough beltshrine, Co. Sligo, (CAT.7), eighth century, National Museum of Ireland (NMI 1941:81).



Figure 36

Roscrea brooch, obverse, Roscrea, Co. Tipperary, ninth century, National Museum of Ireland, (NMIP737).



Figure 37
Book of Kells, *folio 202v* Co. Meath, c. 800, Library, Trinity College Dublin, (MS58).



Figure 38

Lough Kinale bookshrine, Co. Longford, (CAT. 17), eighth- ninth century, National Museum of Ireland, (NMI:1986:141).



Figure 39
Tullylough cross, Co. Leitrim, eighth to ninth century. National Museum of Ireland.
(NMI 1998:9).



Figure 40
Lismore crozier, Co. Waterford, (CAT.13), eleventh century, National Museum of
Ireland, (NMI 1949:1).



Figure 41
Cross of Cong, Co. Mayo, obverse, (CAT. 12), eleventh century, National Museum of Ireland, (NMI R2833).



Figure 42
Three glass beads, Hawk Hill, Co. Kildare; Denhamstown, Co. Meath and Cloughwater Co. Antrim, first-century B.C.



Figure 43
Ballinderry brooch, Co. Offaly, late sixth-early seventh century, National Museum of Ireland, (NMI E6:422).



Figure 44
 Studs (CAT.9.9 and 9.10), Ardagh chalice, Reerasta, Co. Limerick, eighth century,
 National Museum of Ireland, (NMI 1874:99).



Figure 45
 Stud (CAT.9.2), Ardagh chalice, bowl-girdle, Reerasta, Co. Limerick, eighth century,
 National Museum of Ireland, (NMI 1874:99).



Figure 46

Studs (CAT.9.13-4), Ardagh chalice, handle, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 47

Stud (CAT.1.14), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 48
Stud (CAT. 1.6), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century,
National Museum of Ireland, (NMI 1980: 4).



Figure 49
Studs (CAT.9.19-20), Ardagh chalice, handle-escutcheon, Reerasta, Co. Limerick,
eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 50
Stud (CAT.2.2), Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5).

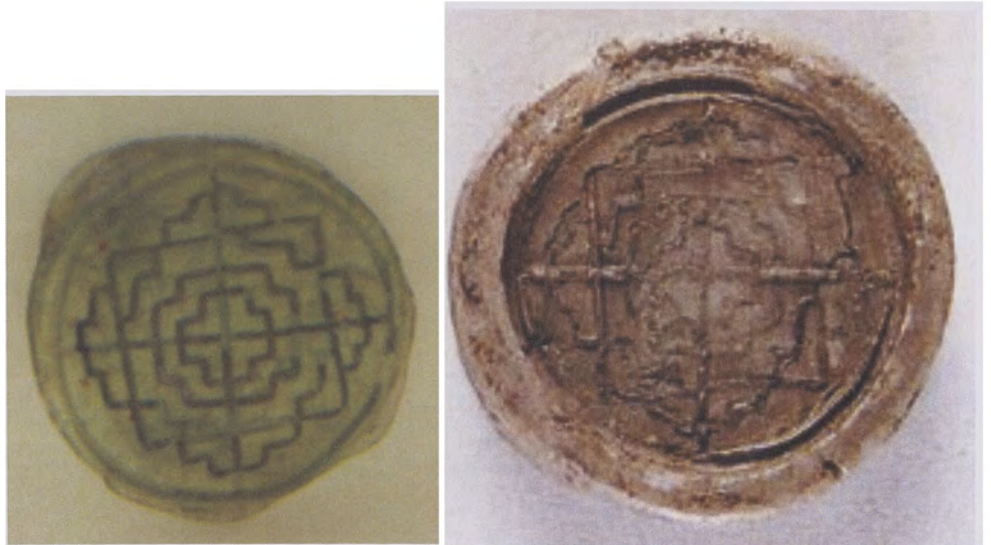


Figure 51
Glass stud and clay mould, Lagore Crannóg, Co. Meath, (CAT.6.1-2), eighth century, National Museum of Ireland, (E14:157a).

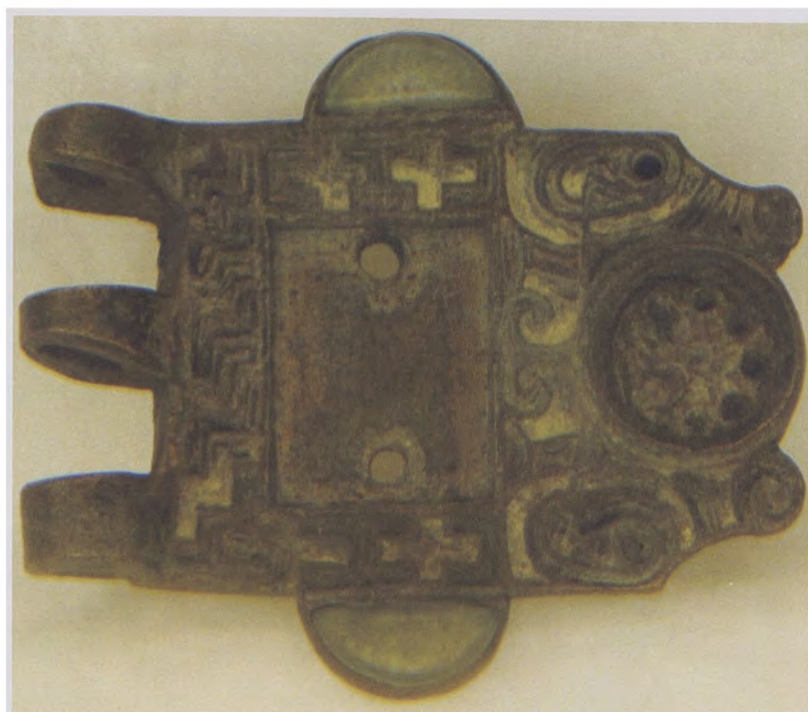


Figure 52
Stud with orpiment (CAT.5.1), hinged shrine mount, no locality, eighth century,
National Museum of Ireland, (NMI1920:45).



Figure 53
Stud (CAT.9.18.3), Ardagh chalice, right handle-escutcheon, Reerasta, Co. Limerick,
eighth century, National Museum of Ireland, (NMI 1874:99).

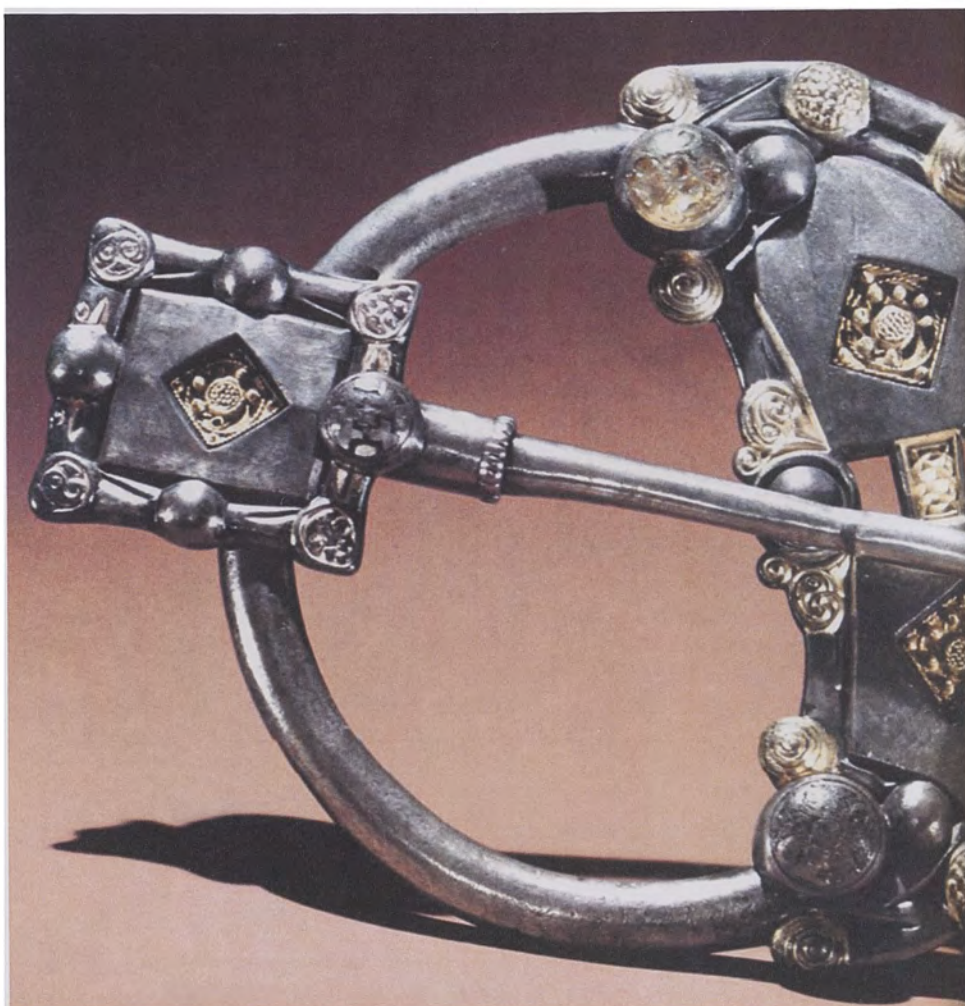


Figure 54
Killamery brooch, detail, Co. Kilkenny, ninth century, National Museum of Ireland, (NMI R165).



Figure 55
Stud (CAT. 4.2), 'Tara' brooch, obverse, Bettystown, Co. Meath, eighth century, National Museum of Ireland, (NMI R4015).



Figure 56
 Stud (CAT.1.5), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 57
 Stud (CAT. 12.1), reverse Cross of Cong, Co. Mayo, eleventh century, National Museum of Ireland, (NMI R2833).



Figure 58
Plaque of *millefiori* glass, Garranes, Co. Cork, seventh-ninth century AD, National Museum of Ireland, (NMI E27:267).



Figure 59
Millefiori platelet (CAT.13.1) drop left side, Lismore crozier, Co. Waterford, eleventh century, National Museum of Ireland, (NMI1949:1).



Figure 60

Glass beads from Ireland sixth –ninth century, British Museum London, left to right; Dungiven, Co. Derry, H. 15mm 1890:0215.9; Antrim, Co. Antrim, H. 20mm, 1862.0701.1; no locality, H. 16mm, 1871,1210.17.



Figure 61

Stud (CAT. 8.1), Lough Gara buckle, Co. Sligo, seventh- eighth century, National Museum of Ireland. (NMI 1958-20).



Figure. 62
Amber necklace and gold ornaments, Tooradoo, Co. Limerick, 800-700 B.C, National Museum of Ireland, (SA 1927:2a—1.W).



Figure 63
Amber stud (CAT. 17.1), Lough Kinale bookshrine, Co. Longford, eighth- ninth century National Museum of Ireland, (NMI:1986:141).

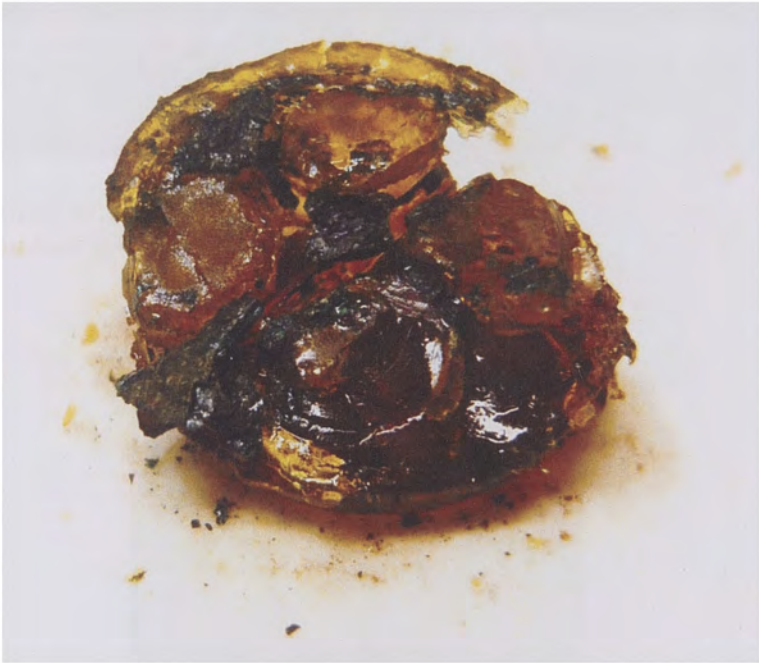


Figure 64
Amber stud with lead-tin alloy grille (CAT. 17.5), Lough Kinale bookshrine, Co. Longford, eighth-ninth century National Museum of Ireland, (NMI:1986:141).



Figure 65
Stud (19.19) amber inlay (CAT.15.1), Ardagh chalice, right handle-escutcheon, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 66
Viking amber pendant ring from Fishamble St. Dublin, tenth century AD, National Museum of Ireland, (E172:4309).



Figure 67
Stud (CAT.1.20), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century,
National Museum of Ireland, (NMI 1980: 4).



Figure 68
Book of Kells, *folio 7v* Co. Meath, c. 800, Library, Trinity College Dublin, (MS58).

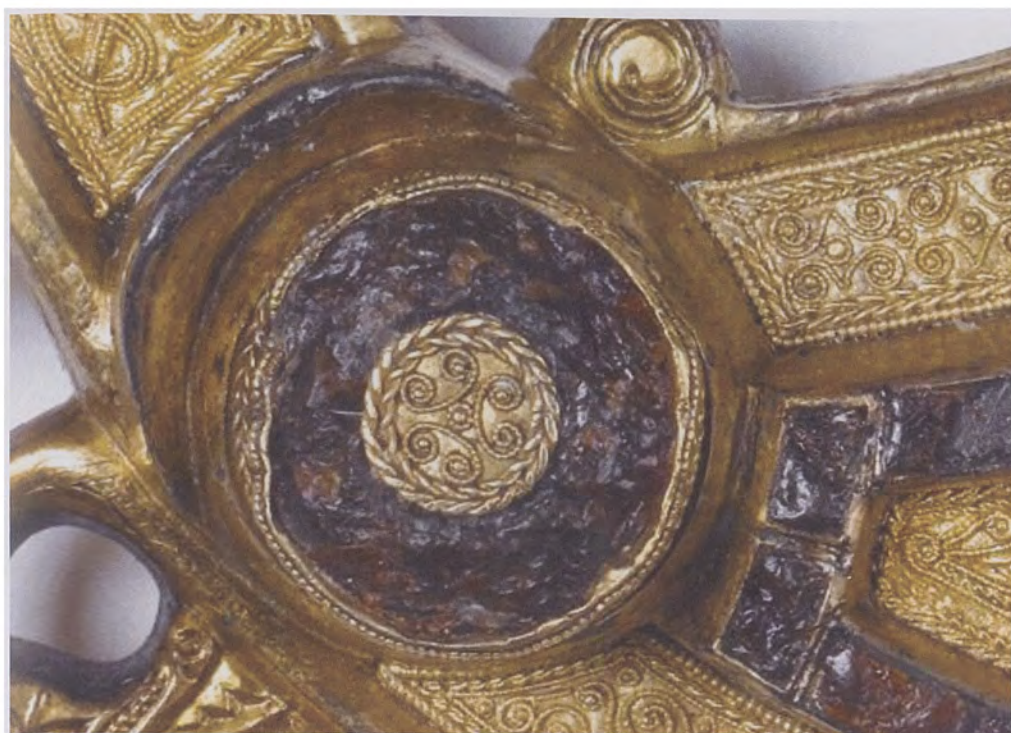


Figure 69

Stud (CAT. 16.1), 'Tara' brooch, obverse, Bettystown, Co. Meath, eighth century, National Museum of Ireland, (NMI R4015).



Figure 70

Stud (CAT.1.4), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 71
Stud (CAT.1.19), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 72
Brooch moulds from Birsay, Orkney, late eighth century, National Museum of Scotland, (HB 294, left and centre, HB295).



Figure 73
Panel adjoining stud (CAT. 1.23), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 74
Mica panel, upper foot flange, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 75
Exploded photograph of the Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 76
Stud (CAT.9.20), handle-escutcheon, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 77
Champlevé Stud (CAT. 4.7), 'Tara' brooch, reverse, Bettystown, Co. Meath, eighth century, National Museum of Ireland, (NMI R4015).



Figure 78
Champlevé enamelled 'studs', Monymusk reliquary, obverse, Scotland, eighth century,
 National Museum of Scotland (NMS HKE14).



Figure 79
Champlevé 'stud', Monymusk reliquary, Scotland, left side, eighth century,
 National Museum of Scotland (NMS HKE14).



Figure 80
Stud (CAT. 9.25), medallion, Ardagh chalice, Reerasta, Co. Limerick, eighth century,
National Museum of Ireland, (NMI 1874:99).



Figure 81

Small Studs (CAT.2.8, a-d), Derrynaflan ring, eighth century, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5).



Figure 82
Studs (CAT. 9.7-20), handle and escutcheon, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 83

Glass gaming piece, globular blue glass with flattened base, applied red and white trails or formed from heated reticella glass, Diam. 30mm, Gotland, British Museum, (1921, 1101.61).

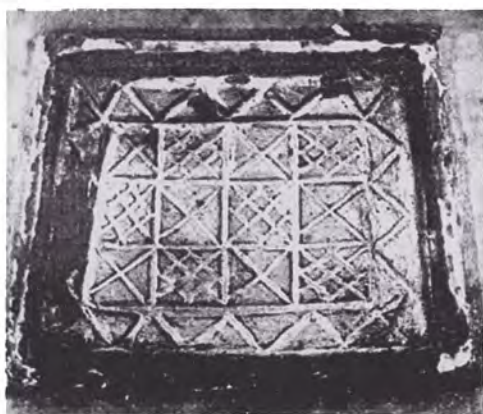


Figure 84

Silver foil, underside of foot-flange, Ardagh chalice, Reerasta, Co. Limerick, (CAT. 9), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 85
Studs (CAT. 4.2, 4.4) 'Tara' brooch, obverse, Bettystown, Co. Meath, eighth century, National Museum of Ireland, (NMI R4015).



Figure 86
Glass stud, Irish style, mid-late seventh- century Anglo-Saxon pin-suite, Roundway Down, Wiltshire Museum (S6F).



Figure 87
Stud detail (CAT.1.14), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 88
Stud (CAT. 12.3), reverse Cross of Cong, Co. Mayo, eleventh century, National Museum of Ireland, (NMI R2833). (Fused glass join and copper-alloy support.)



Figure 89
Stud detail (CAT.13.2), Lismore crozier, Co. Waterford, eleventh century, National Museum of Ireland, (NMI 1949:1).



Figure 90
Detail stud, (CAT.13.3), Lismore crozier, Co. Waterford, eleventh century, National Museum of Ireland, (NMI 1949:1).

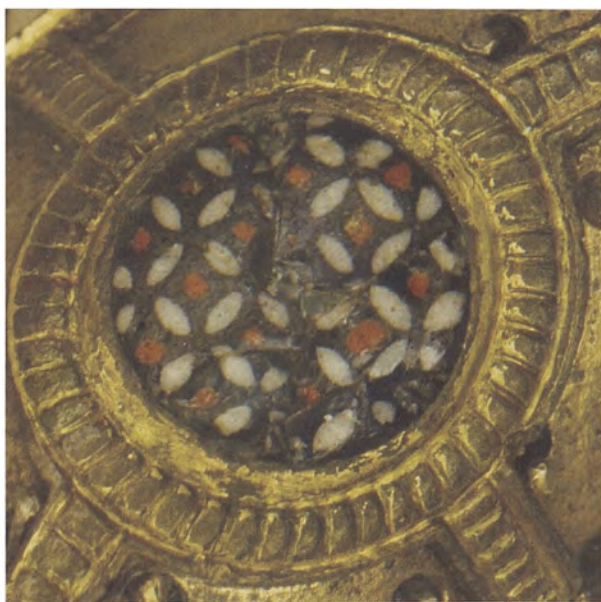


Figure 91
Detail stud, (CAT.13.4), Lismore crozier, Co. Waterford, eleventh century, National Museum of Ireland, (NMI 1949:1).

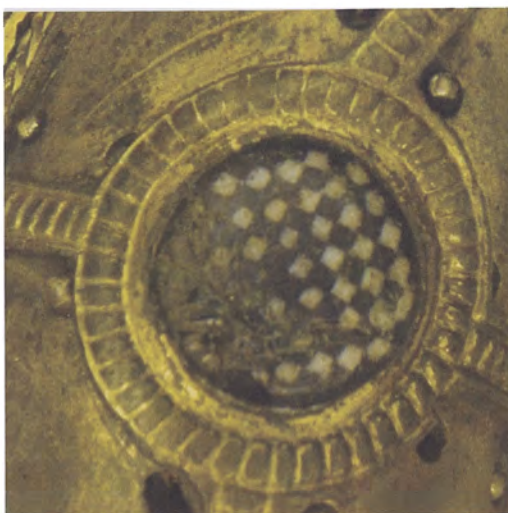


Figure 92

Stud (CAT.13.5), Lismore crozier, Co. Waterford, eleventh century, National Museum of Ireland, (NMI 1949:1).



Figure 93

Stud (CAT.13.6), Lismore crozier, Co. Waterford, eleventh century, National Museum of Ireland, (NMI 1949:1).



Figure 94
Stud (CAT.1.9), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 95
Stud (CAT. 3.1) of the Derrynaflan strainer-ladle, eighth century, National Museum of Ireland, (NMI 1980:7).



Figure 96
Stud, (CAT. 9.24), underfoot mount, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 97
Amber and lead-tin alloy grille stud, (CAT. 17.5), Lough Kinale bookshrine, Co. Longford, eighth- ninth century National Museum of Ireland (NMI:1986:141).



Figure 98
Amber stud (CAT. 17.1) Lough Kinale bookshrine, Co. Westmeath, eighth- ninth century National Museum of Ireland (NMI:1986:141). (Amber flange and recessed amber channel.)



Figure 99
Amber stud, (CAT. 16.2) 'Tara' brooch, obverse, Bettystown, Co. Meath, eighth century, National Museum of Ireland, (NMI R4015).

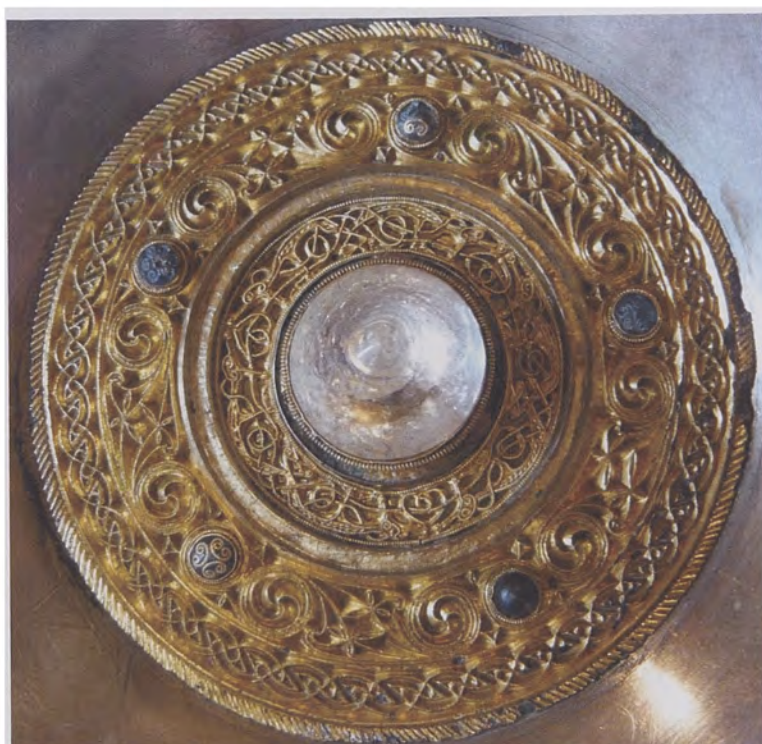


Figure 100
Underfoot mount, Ardagh chalice, Reerasta, Co. Limerick, (CAT.9), eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 101
Amber channel surrounding the rock-crystal mount, (CAT.15.3), Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 102
Stud, (CAT. 9.1), bowl girdle, Ardagh chalice, Reerasta, Co. Limerick, eighth century,
National Museum of Ireland, (NMI 1874:99). (Rounded cut-marks on the silver grille.)



Figure 103
Stud (CAT. 9.3), bowl girdle, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 104
Studs (CAT. 9.7-8), bowl girdle, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99). (Irregular shaped grille section and grille not meeting the end of the stud.)



Figure 105
Stud (CAT. 9.21), medallion, Ardagh chalice, Reerasta, Co. Limerick, eighth century,
National Museum of Ireland, (NMI 1874:99).



Figure 106
Stud (CAT.15.2), medallion, Ardagh chalice, Reerasta, Co. Limerick, eighth century, National Museum of Ireland, (NMI 1874:99).



Figure 107
Derrynaflan paten (above) and Derrynaflan ring (below) Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4 and 5).



Figure 108
Stud (CAT.1.7), Derrynaflan paten, ornamental rim, Co. Tipperary, eighth century,
National Museum of Ireland, (NMI 1980: 4).



Figure 109
Stud (CAT.1.3), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century,
National Museum of Ireland, (NMI 1980: 4). Photograph: Jennifer Gleeson.



Figure 110

Stud (CAT.1.3), detail of reticulation, ornamental rim, Derrynaflan paten, Co.

Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4). (Reticulation on the silver grille.)



Figure 111

Stud (CAT.1.7), detail, ornamental rim Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980:4).

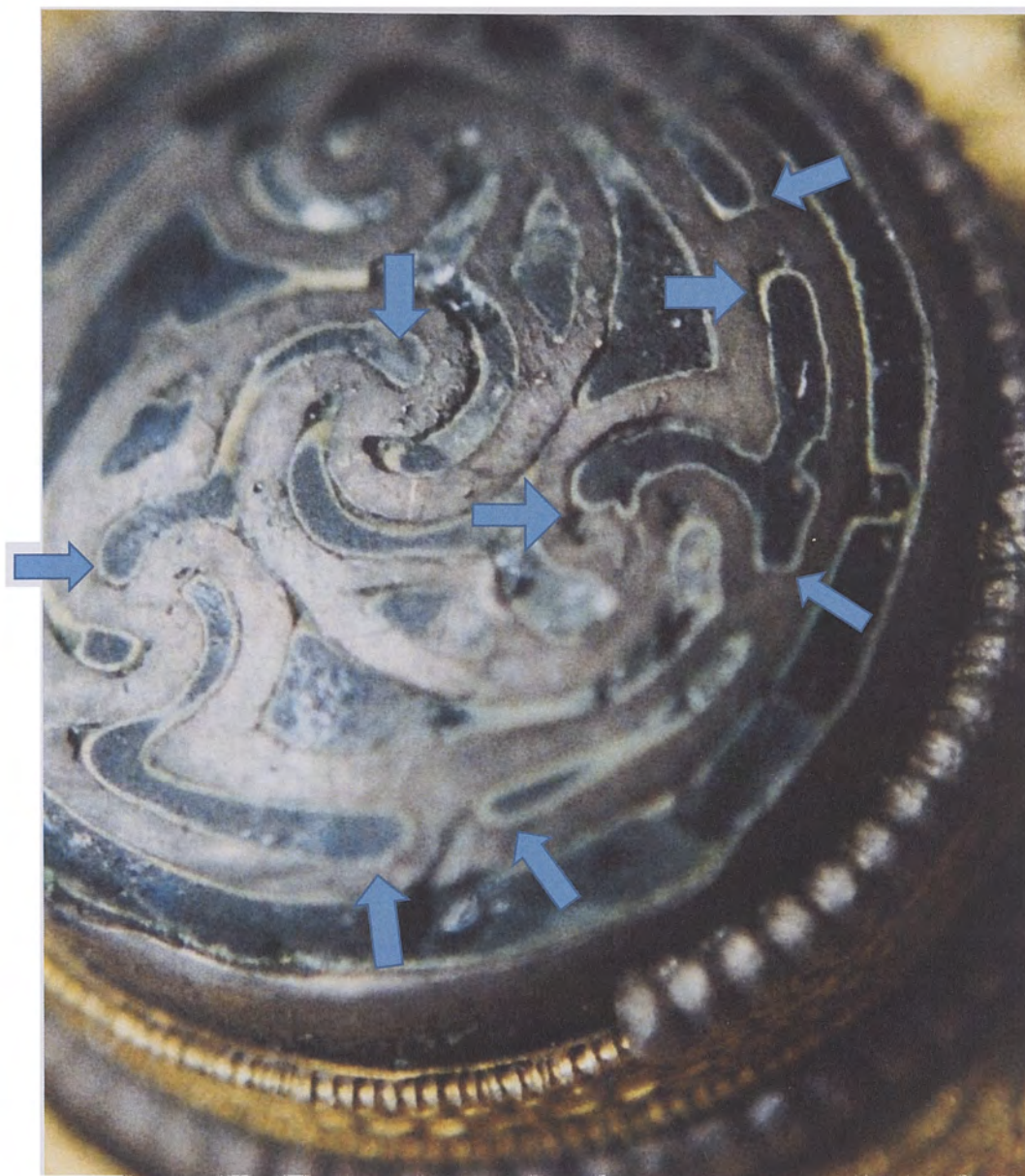


Figure 112
Stud (CAT.1.3), detail of channel terminals, ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980:4). (Silver grille, with wide channel terminals.)



Figure 113

Stud (CAT.1.3), detail of grille protrusion, ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980:4). (Detail of a protrusion from the grille motif.)



Figure 114

Stud (CAT.1.4), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980:4).



Figure 115
Stud (CAT.1.11), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century,
National Museum of Ireland, (NMI 1980:4).



Figure 116

Stud (CAT.1.9), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4). (Detail added to motif.)

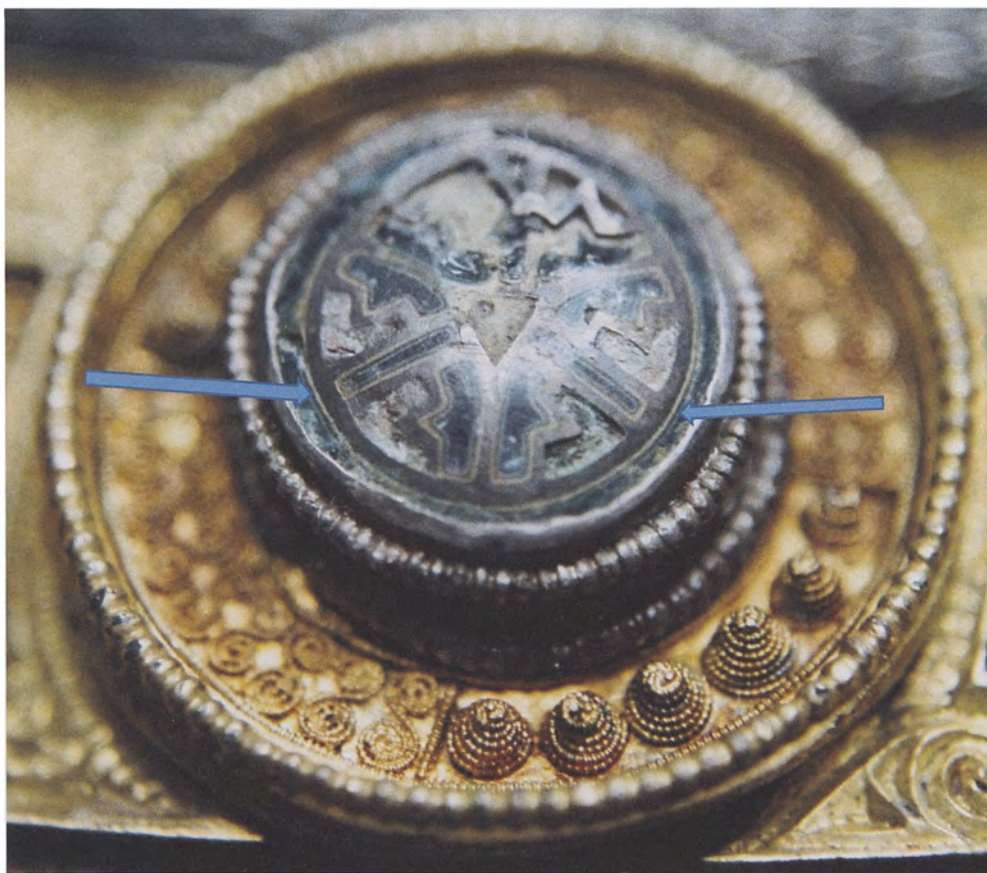


Figure 117

Stud (CAT.1.23), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).

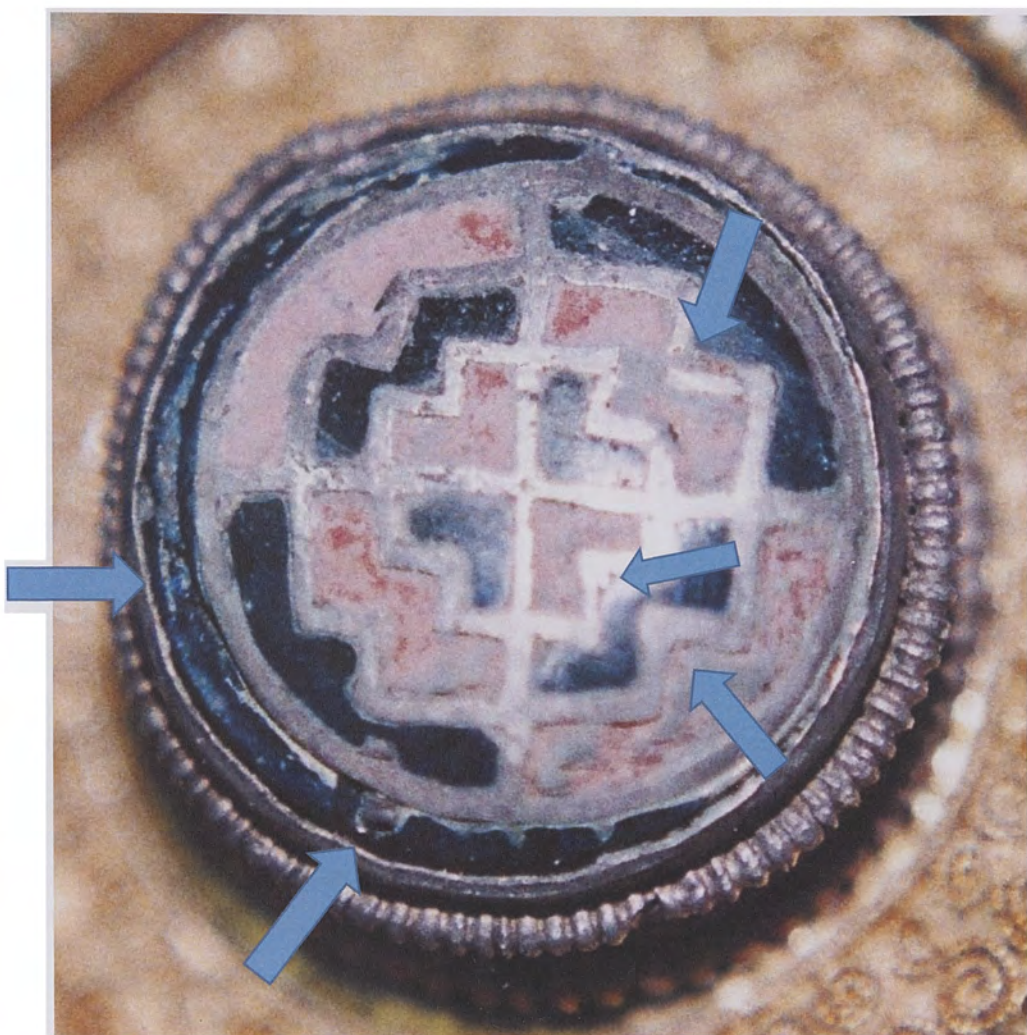


Figure 118
Stud (CAT.1.23), technical imperfections, ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4). (Evidence of the stud makers working signature.)



Figure 119

Stud (CAT.1.2), ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).



Figure 120

Stud (CAT.1.23), profile and setting, ornamental rim, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).

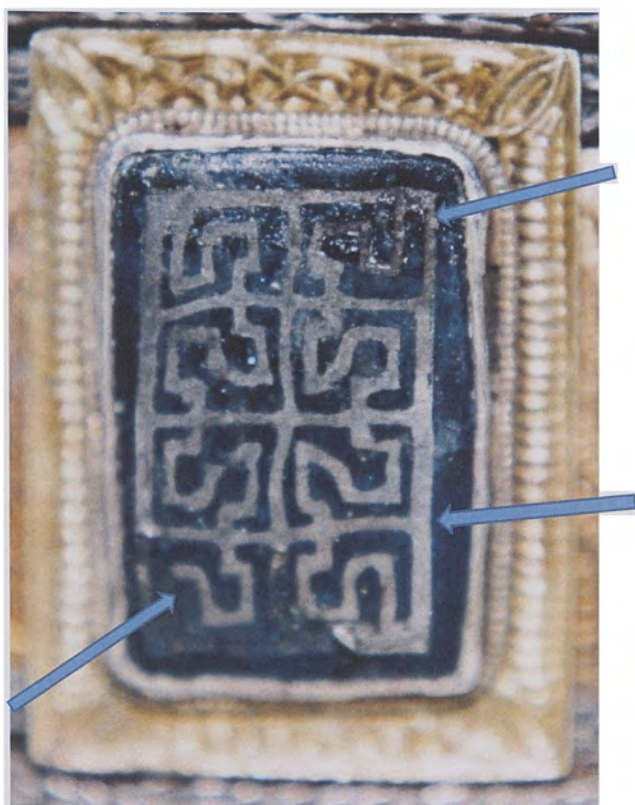


Figure 121

Stud (CAT.1.35), side, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4). (Evidence of the stud maker's working signature.)



Figure 122

Stud (CAT.1.31), side, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4). (Evidence of the stud maker's working signature.)



Figure 123
Stud (CAT.1.33), side, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4).

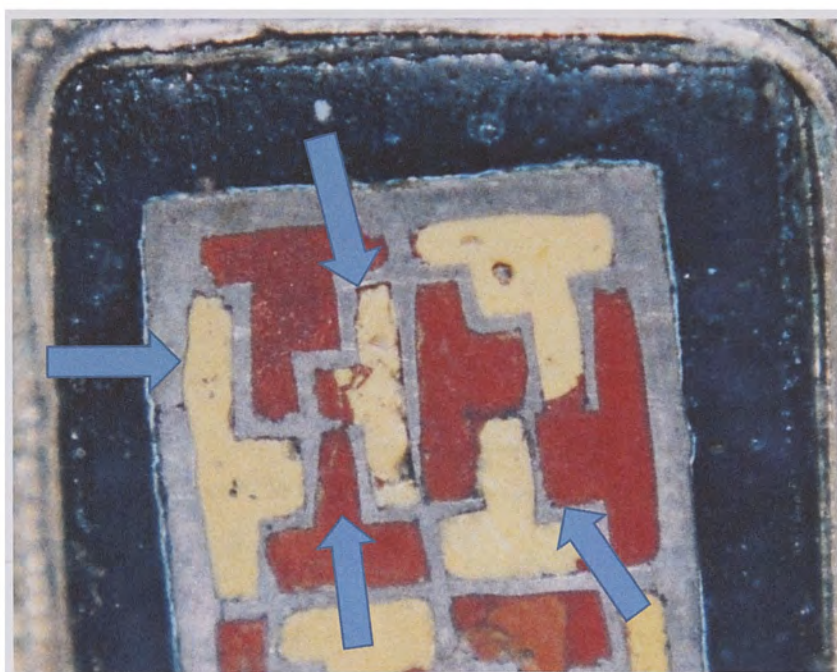


Figure 124
Stud detail, (CAT.1.33), side, Derrynaflan paten, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 4). (Evidence of stud maker's working signature.)

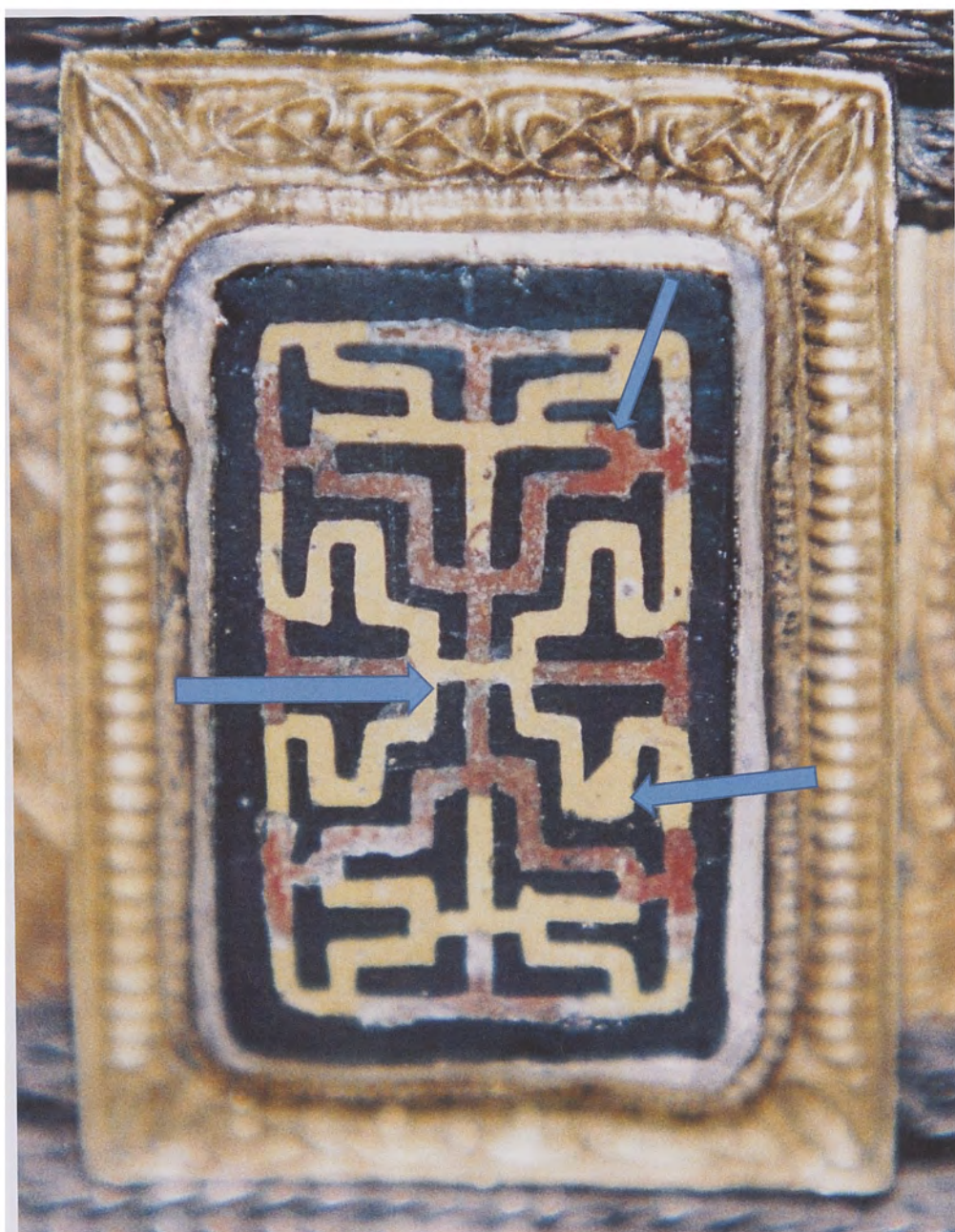


Figure 125
Stud detail, (CAT.1.36), side, Derrynaflan paten, Co. Tipperary, eighth century,
National Museum of Ireland, (NMI 1980: 4). (Evidence of the maker's stud working
signature.)



Figure 126
Stud (CAT.2.3), side, Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5).



Figure 127
Stud (CAT.2.1), side, Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5).



Figure 128
Stud (CAT.2.7), side, Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5).



Figure 129
Stud (CAT.2.5), side, Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5).

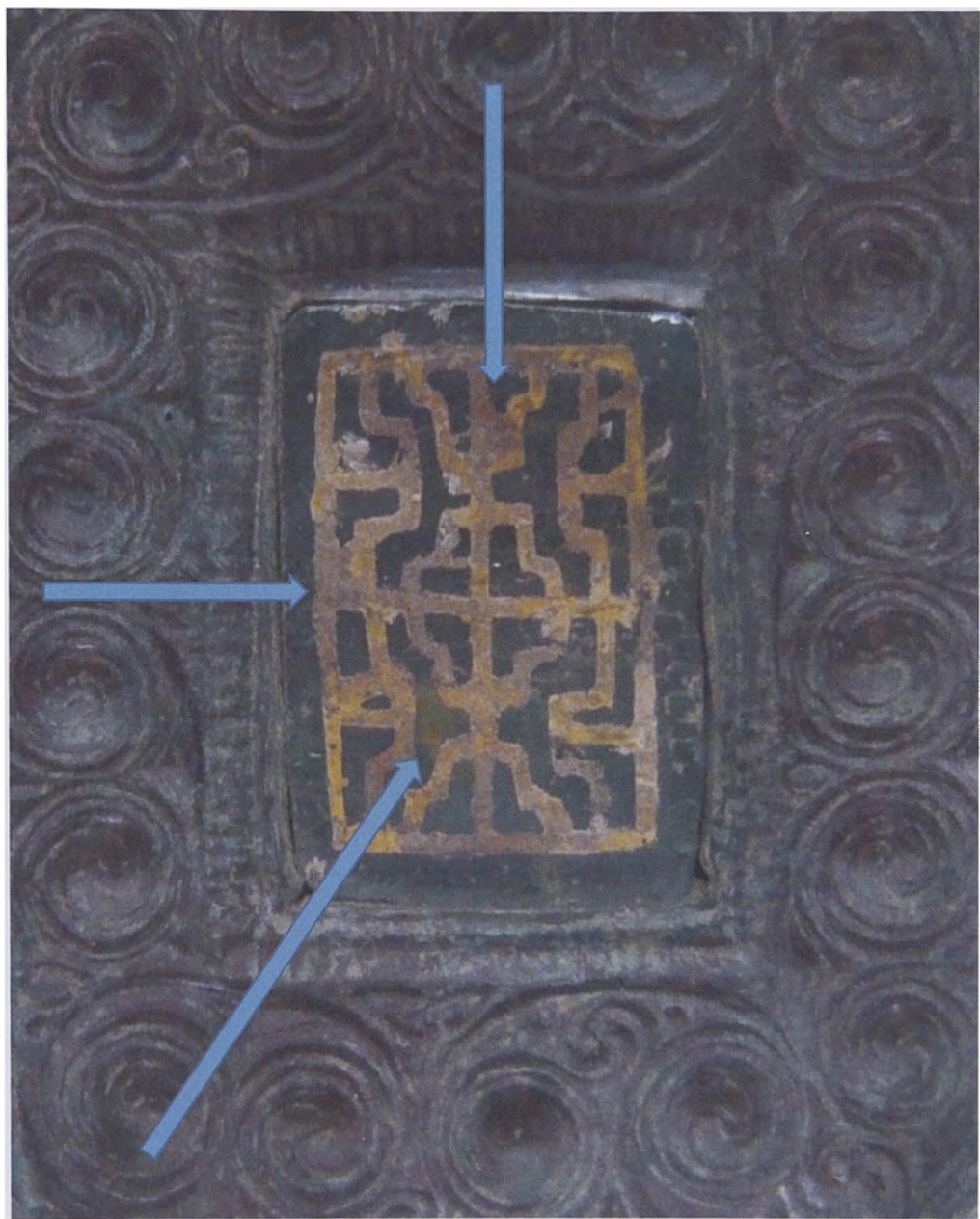


Figure 130
Stud (CAT.2.2), side, Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980: 5). (Evidence of the stud-maker's working signature)

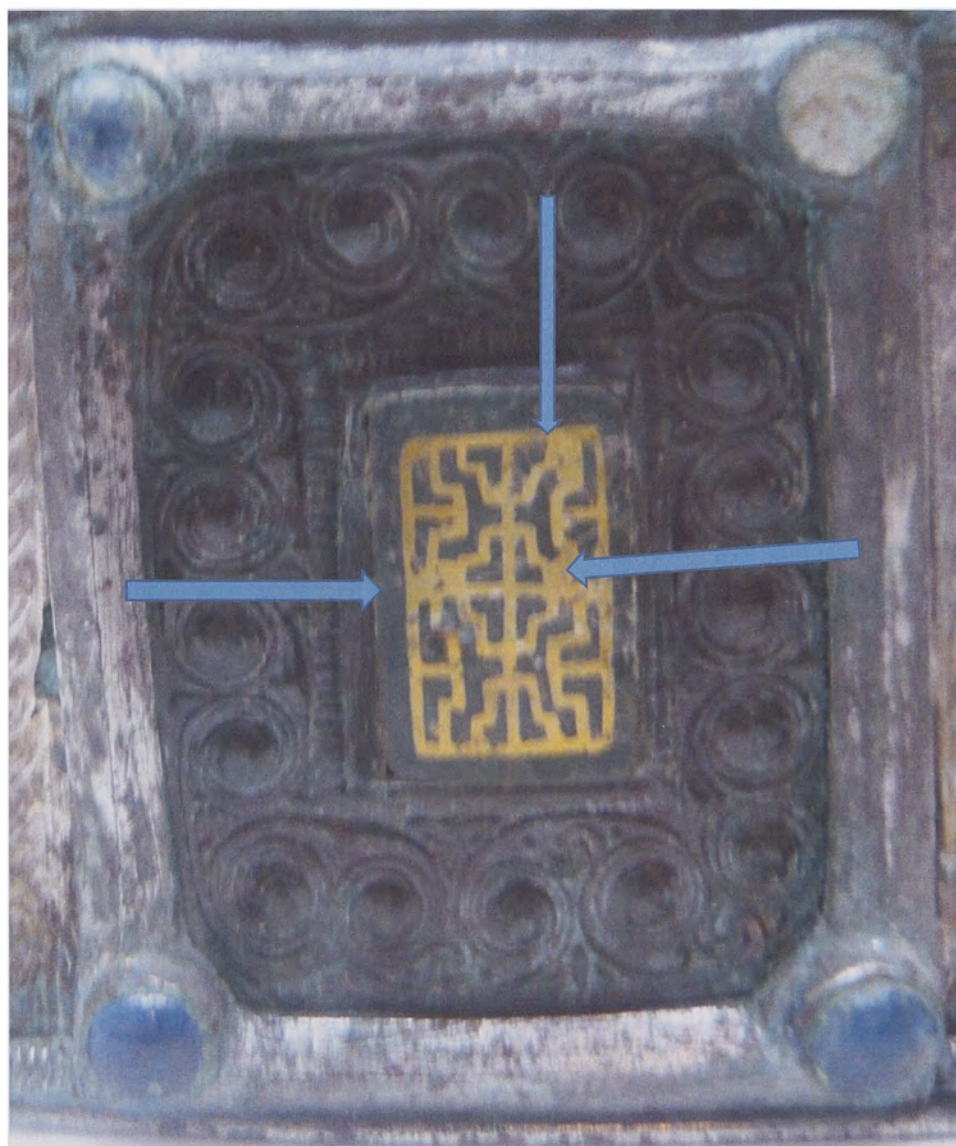


Figure 131

Stud, central (CAT.2.4), peripheral blue studs (CAT.2.9), side, Derrynaflan ring, Co. Tipperary, eighth century, National Museum of Ireland, (NMI 1980:5). (Evidence of the stud-maker's working signature.)



Figure 132
Book of Durrow, *folio 85v*, Co. Offaly, seventh-century, Library Trinity College Dublin, (MS57).



Figure 133

Detail of medallion, Book of Durrow, *folio 85v*, Co. Offaly, seventh-century, Library Trinity College Dublin, (MS57).



Figure 134

Lindisfarne Gospels, Northumbria, *folio 94b*, The British Library, late seventh or early eighth century, (Cotton MS Nero D. IV).



Figure 135

Book of Kells, *folio 291v* Co. Meath, c. 800, Library, Trinity College Dublin, (MS58).



Figure 136
Stud detail (CAT.13.7) Lismore crozier, Co. Waterford, eleventh century, National
Museum of Ireland, (NMI 1949:1).



Figure 137

Soiscéal Molaisse, Co Fermanagh, c. 1001-1023, National Museum of Ireland, (R4006).

