

Zeitschrift: Schweizer Münzblätter = Gazette numismatique suisse = Gazzetta numismatica svizzera

Herausgeber: Schweizerische Numismatische Gesellschaft

Band: 56-57 (2006-2007)

Heft: 225

Artikel: A new discovery from the 1904 Ilanz Cache : alternatives to the six-ray star in Desiderius's tremisses

Autor: Alippi, Cesare / Mühlemann, Yves

DOI: <https://doi.org/10.5169/seals-171955>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 02.05.2026

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

A New Discovery from the 1904 Ilanz Cache: Alternatives to the Six-Ray Star in Desiderius's Tremisses

Introduction

For more than a century the discovery of the Ilanz cache (Switzerland, Kt. Graubünden, 1904), now at the Rätisches Museum of Chur, has provided elements to scholars¹ for the study and the interpretation of the coinage of Desiderius (757–774 AD), the last king of the Lombards. The cache is particularly rich in Desiderius's starred tremisses²: gold coins with the king's name that, suggested by a previous mintage of King Aistulf (749–756 AD), also inspired the subsequent gold production of Charlemagne for Italy.

Such star tremisses are characterized, on the obverse, by the honorific *flavia* title followed by a city name; the inscription surrounds a linear circle embracing a multiple-ray star. The reverse is characterized by a potent cross with a legend referring to the king's name and his leadership or royal title.

The Ilanz cache incorporates Desiderius's starred tremisses for different cities, i.e., Seprio, Milan, Pavia, Treviso, Vicenza, Vercelli and Pombia, but other findings have completed the list with additional cities, e.g., Novate, Reggio Emilia, Ivrea, Brescia, Lucca, Piacenza and Pisa³. It is likely, as several scholars have likewise noted, that other names are missing in the list, e.g., Bergamo, whose name appeared on later Charlemagne's starred tremisses⁴.

Desiderius's tremisses are extremely rare even if at least 140 specimens have been identified in museums and private collections⁵, including tremisses of doubtful authenticity and fakes. However, by considering tremisses from the Ilanz cache, we are free from any contamination and, hence, can position ourselves on solid ground.

Other caches⁶, e.g., Mezzomerico (Italy, Novara province, c. 1915–1920), have provided further specimens of the Desiderius's tremisses but, unfortunately, coins were diffused before any studying or cataloguing could be undertaken.

A thorough analysis of the Ilanz cache has been carried out over time by different scholars. The first critical review was undertaken by Jecklin⁷; several authors have completed the latter work by correcting some errors and extending the analysis⁸. Other relevant material includes Arslan's analysis and list of Italian findings⁹ and the most recent comprehensive study provided by Pardi¹⁰ which, by relying on Arslan's and Bernareggi's works, integrates the existing state of research on Lombardic and Carolingian starred tremisses.

1 F. JECKLIN, Der langobardisch-karolingische Münzfund bei Ilanz, MBNG 25, 1906/1907, pp. 28–82; P. GRIERSON, La trouvaille monétaire d'Ilanz, SM 1953, pp. 46–48; H.H. VOLCKERS, Karolingische Münzfunde der Frühzeit (751–800), (Göttingen 1965), at pp.73–79, 160–166; K. F. MORRISON, Carolingian Coinage, ANSNM 158 (New York 1967), at pp. 6, 343; E. BERNAREGGI, I tremissi longobardi e carolingi del ripostiglio di Ilanz, NAC 6, 1977, pp. 341–364; E. BERNAREGGI, Carolingian gold coins from the Ilanz hoard, Cambridge, Studies in Numismatic Method, presented to Philipp Grierson, Cambridge, 1983, pp. 127–135; H.-U. GEIGER, Der Münzschatz von Ilanz und die Entstehung des mittelalterlichen Münzsystems, Schweizerische Zeitschrift für Geschichte 36, 1986, pp. 395–412.

Acknowledgements: The authors wish to thank Dr. W. Eisler for his support in improving the readability of the manuscript.

2 In addition to Desiderius starred tremisses the cache comprises a relevant set of Charlemagne tremisses, deniers, as well as Anglo-Saxon

pennies, Islamic dirhems and jewels.

3 E. A. ARSLAN, Il tremisse «stellato» di Desiderio per Brescia. La moneta tra Longobardi e Carolingi (Brescia 2001), at p. 19; R. PARDI, Monete Flavie Longobarde. Emissioni monetali e città longobarde nel

secolo VIII (Roma 2003), at p. 63.

4 ARSLAN (n. 3), p. 23; PARDI (n. 3), p. 77.

5 ARSLAN (n. 3), at p. 20.

6 E. BERNAREGGI, Moneta Longobardorum (Lugano 1989), at p. 96; PARDI, (n. 3), p. 85, n. 159; ARSLAN (n. 3), pp. 24–27.

7 JECKLIN (n. 1).

8 E.g., GRIERSON (n. 1); VOLCKERS (n. 1); BERNAREGGI 1977 (n. 1); BERNAREGGI 1983 (n. 1); BERNAREGGI 1989 (n. 6); GEIGER (n. 1).

9 ARSLAN (n. 3), pp. 18–22 and the updated list of findings kept by the scholar.

10 PARDI (n. 3), pp. 59–86.

The Coins

According to the existing literature, all Desiderius's star tremisses are characterized by a six-ray star on the obverse with olives (or little segments) within sectors. A traditional specimen, provided in figure 1 for the starred tremisses of Milan, is representative of such a typology.



Fig. 1.



Fig. 1 (2:1).

Milan tremissis of Desiderius struck up to 772/3: a traditional pattern.

Obv.: +FL•AMDIOL•ANO, six-ray star with olives within sectors.

Rev.: +DNDI•SIDI•RIVSR•x (ND, RI and RX ligatured), a potent cross.

AV; 0.948 g; 19.3–18.6 mm; 270°

JECKLIN (n. 1), no. 5; BERNAREGGI 1977 (n. 1), no. 5 (Rätisches Museum Chur M 1986.458).

Coins derived from different dies and belonging to this type mainly differ in the legend and the presence of pellets and small lines. For instance, *flavia* may also become *fla* (as in the present specimen) while Desiderius is variously spelled, e.g., *deside*, *desde*, *disidirivs*, *disidi*, *disidiriv*. Such variants still represent an open research issue; the interested reader can refer to Bernareggi¹¹ for further details. Finally, the reverse legend begins with DN (dominus noster/domino nostro, Our Lord) and terminates with the Rx (Rex) symbol which, in some specimens, is even repeated (which may perhaps be read as «king of Lombard kings», in spite of the erroneous declination).

There are only two known examples of Desiderius's starred tremisses which do not incorporate the contradistinguishing six-ray star pattern: the Vercelli coin in the Ilanz cache and a related tremissis with the same city name from a public auction.

The Ilanz specimen is depicted in figure 2. The peculiarity of the tremissis resides in the four-ray star pattern, in strong contrast to the six-ray star pattern which was, before this discovery, the unique canonical pattern for the starred tremisses of Desiderius. The four-ray star, which here resembles a potent cross, is composed of two segments intersecting each other orthogonally in the middle, different from the six-ray star pattern obtained by intersecting three segments in the centre, hence producing 60° sectors.

11 BERNAREGGI, 1989 (n. 6), pp. 171–191.



Fig. 2.



Fig. 2 (2:1).

Vercelli tremisiss of the Ilanz cache probably struck by Desiderius in 773–774.
 Obv.: +FL·AVIAVIRCC·L·L·I, (AV ligatured), four-ray star with olives within sectors, four pellets between the main axis¹² of the coin and the olives.
 Rev.: +DNDCSIDCRIVS R_x (ND and RX ligatured), a potent cross (with lunettes).

AV; 1.006 g; 19.1–17.6 mm; 135°

JECKLIN (n. 1), no. 31; BERNAREGGI 1977 (n. 1), no. 42 (Rätisches Museum Chur M 1986.495).



Fig. 3.



Fig. 3 (2:1).

Vercelli tremisiss published in the auction catalogue, probably struck by Desiderius in 773–774

Obv.: +FL·Λ·I·VIR·CCLLIR·, (ΛΛ, AV ligatured), eight-ray star with olives within sectors.

Rev.: +⁻ D·NDESIDE R_x R_x⁻ (ND and RX ligatured), a potent cross.

AV; 0.93 g; 19.0–18.6 mm; 150°

NEGRINI (n. 14), no. 1118.

Only four specimens are known or cited for Vercelli. The first one is present in the Ilanz cache and is the specimen here under investigation, another is in Rome, Collezione Reale (its weight is 1.05 g)¹³, two others are in private collections. Unfortunately, we had access only to the tremisiss recently published in an auction catalogue¹⁴ and shown in figure 3. Such a tremisiss shares a pattern similar to the one found in the Ilanz cache, presenting two orthogonal crosses and hence confirming the peculiarity of the Vercelli type.

¹² We define the main axis as the logical elongation of the cross in the legend towards the centre of the coin.

¹³ The authors wish to thank Dott. Catalli, senior numismatist of the Soprintendenza Archeologica di Roma, for providing information relative to the coin (Collezione Reale, Roma).

¹⁴ Asta di Monete e Medaglie, 21, R. Negrini, Milano, 26 May 2005, no. 1118.

Figure 4 shows the different reverse typologies for the starred tremisses of Vercelli in the Ilanz cache (fig. 4, left) and the one present in the auction catalogue (fig. 4, right). The latter specimen presents an evolution for the cross type: the four olives of figure 4 left, which became an addition cross intersecting the existing one and pellets, extended to all angular segments, disappear and are replaced by eight olives (fig. 4, right). It is interesting to observe that both Vercelli specimens are characterized by orthogonal cross(es) dividing the field into four 90 or eight 45 degrees sectors respectively.

Unfortunately, based on the scarce evidence, we cannot state whether the orthogonal-ray star is a peculiarity of the Vercelli mint or, conversely, constitutes evidence of a proper feature minted in the Northern kingdom; further studies in this direction need to be carried out.

Discussion

The six-ray star tremisses of Desiderius represent a traditional Lombardic pattern, as is also precisely documented by Pardi¹⁵, who demonstrates that the six-ray star is largely used as a decorative element in stuccos, plutei and fibula belts of the Lombardic period (see a detail of a column capital in fig. 5).



Fig. 5: A six-ray star pattern on a capital, Santa Giulia Museum, Brescia, Italy.

Conversely, once the war between the Carolingians and the Lombards was over the final Carolingian pattern for starred tremisses became the four-ray star. Figure 6 shows a specimen of such a type for a Charlemagne's starred tremissis.

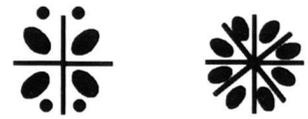


Fig. 4: Two typologies for the Vercelli starred tremisses. Left: four-ray star (cross) with olives and pellets; right: eight-ray star (double cross) with olives.

15 PARDI (n. 3), pp. 268–271.

De facto, the four/eight-ray tremisses of Vercelli share the orthogonal cross pattern with Charlemagne's (768–814 AD) starred tremisses minted in Italy during the war against the Lombards (773–774 AD) and subsequent years, hence providing evidence for a complex political and monetary situation in that transitional period. The four/eight and six ray- patterns are somehow mixed: we find here the Vercelli tremisses of Desiderius with the four/eight ray star and a Charlemagne's tremissis with one containing six rays. A specimen of this latter type is depicted in figure 7.



Four-ray star tremissis of Charlemagne, struck in Milan, February 774–776/7 or 781.

Obv.: +FL·A·M·€DIO·ANO (LA and AN ligatured), four-ray star with olives within sectors.

Rev.: +DNCA·R·OL·O·R·x· (RX ligatured), a potent cross.

AV; 0.906 g; 18.1–17.5 mm; 90°

JECKLIN (n. 1), no. 45; BERNAREGGI 1977 (n. 1), no. 60 (Rätisches Museum Chur M 1986.517).



Six-ray star tremissis of Charlemagne, struck in Milan, 773–February 774.

Obv.: +F·II·A·M·€DIO·ANO (AN ligatured, C· composing a €), six-ray star with olives within sectors.

Rev.: +DOMI·S·CAROIVS (CAR ligatured), a potent cross.

AV; 0.899 g; 18.4–18.0 mm; 90°

JECKLIN (n. 1), no. 35a; BERNAREGGI 1977 (n. 1), no. 80 (Rätisches Museum Chur M 1986.500).

Charlemagne hence minted four-ray star tremisses for some years while preparing the gold demonetisation for Italy in favour of the silver denier.

The exact date of the demonetisation of the tremisses (which defines an upper temporal boundary for the coinage) is still under debate and scholars disagree concerning the Capitulary of Mantua¹⁶ of 776, 781 or 787 AD¹⁷. Grierson¹⁸, Völckers¹⁹, Lafaurie²⁰ and Bernareggi²¹ as well as Pardi²² (who follows the traditional interpretation) see in the Capitulary date of 781 AD a more plausible time reference for the tremisses demonetisation. Geiger²³ bases his opinion on a different and more critical interpretation of this accepted historical source. In particular, Geiger commences his chronology with Desiderius's defeat in 774 AD, while claiming that the demonetisation of the gold coinage in Italy should be dated around 776/7 AD²⁴.

We suggest, in accordance with Bernareggi²⁵, that Desiderius's six-ray star tremisses would have been struck until around the period of the war against the Franks (up to 772/3 AD, first phase); the four- and eight-ray star tremisses of Desiderius and the six-ray star tremisses of Charlemagne came afterwards, probably during the war against the Lombards (773–774 AD, second phase). We believe that the four-ray star tremisses of Charlemagne came after the latter conflict (around 774 AD and after) and were perhaps circulating, following Geiger's recent study, up to 776/7 AD or 781 AD (third phase), eventually shortening (776/7 AD) the time duration of the third phase suggested by Grierson²⁶ and Bernareggi²⁷. The result is that the time separation between the end of the first and the third phases could be, in reality, very short, hence providing a strong temporal correlation between the evolution of types over different phases. In conclusion, even taking into account the extremely small size of the sample, we can detect in the four-ray star tremisses of Desiderius a precursor type for the subsequent four-ray star tremisses of Charlemagne, hence providing evidence for our hypothesis for the temporal transition:

772 AD. The war against the Franks breaks out.

- High standard of refinement for the tremisses;
- Six-ray star tremisses of Desiderius²⁸;

16 Capitulary of Mantua, chapter 9: «De moneta. Ut ullus post kalendas augusti istos denarios quos modo habere visum dare audeat aut recipere; si quis hoc fecerit, bannum nostrum componat». Boretius, *Capitularia (Monumenta Germaniae historica, serie 4)*, no 90, vol. I, p. 191.

17 P. GRIERSON, *Chronologia delle riforme monetarie di Carlo Magno*, RIN 56, 1954, pp. 65–79, at p. 70; M. PROU, *Les monnaies carolingiennes (Graz 1969)*, at IX; S. SUCHODOLSKY, *La date de la grande réforme*

monétaire de Charlemagne, NAC 10, 1981, pp. 399–409, at p. 400; PARDI (n. 3), p. 93.

18 P. GRIERSON, *Money and Coinage under Charlemagne*, in: Wolfgang Braunschweig (ed.), *Karl der Grosse, Lebenswerk und Nachleben I*, (Düsseldorf 1965), pp. 501–536, at p. 507.

19 VÖLCKERS (n. 1), p. 41. n. 60 and p. 76.

20 J. LAFAURIE, *Numismatique. Des Carolingiens aux Capétiens*, *Cahiers de civilisation médiévale* 13, 1970, pp. 117–137, at p. 124.

21 BERNAREGGI 1983 (n. 1), p. 132;

BERNAREGGI, 1989 (n. 6), at p. 113.

22 PARDI (n. 3), p. 94.

23 GEIGER (n. 1), p. 409. Geiger, in his essay, expresses strong doubts concerning theories based on the Capitulary of Mantua content since: 1) the 781 AD date is uncertain; 2) the Capitulary, while mentioning deniers, does not expressly cite tremisses.

24 GEIGER (n. 1), p. 409.

25 E. BERNAREGGI, *Struttura economica e monetazione del Regno Langobardo*, NAC 5, 1976, pp. 331–376, at pp. 366–367

and BERNAREGGI 1989 (n. 6), p. 104; BERNAREGGI, 1983 (n. 1), pp. 128–132, concerning the different issues of Carolingian gold coins between 773 and 781.

26 GRIERSON (n. 16), pp. 506–507, 515, suggests that the tremisses continued to be struck until 781.

27 BERNAREGGI 1983 (n. 1), p. 132, shares Grierson's point of view about the duration of the last tremisses issue (issue D).

28 BERNAREGGI 1989 (n. 6), p. 104, suggests that the coinage could have even started as late as the beginning of 773; an opinion which is not shared by ARSLAN (n. 3), pp. 20–21; PARDI (n. 3), pp. 62–63, believes that Bernareggi's point of view regarding the start of the coinage is too restrictive and suggests that the mintage started well before 772, during Desiderius's kingdom.

773 AD, October–June 774 AD. Charlemagne crosses the Alps. He defeats the Lombards at Mortara; Lombards under siege in Ticinum;

- High/Medium standard of refinement;
- Six-ray tremisses of Charlemagne with the *Domns Carolus* type up to February 774²⁹; *Domns Carolus RX F* and *D N Carolus Rex* types, probably minted in 773³⁰; four-ray stars tremisses with the *D N Carolo RX* type after February 774³¹;
- Six-ray star tremisses of Desiderius;
- Most likely date for coinage of the eight-ray star tremisses of Desiderius;
- Desiderius's tremisses employing the Charlemagne patterns for Vercelli (final issue);

774 AD, June 6th. Ticinum (Papia) capitulates. End of the northern Lombard kingdom;

- Medium standard of refinement;
- Continuation of four-ray star tremisses of Charlemagne with the *D N Carolo RX* type up to 776/7 AD or 781 AD³².

Conclusions

Textbooks and scientific numismatic articles have always identified in a six-ray star pattern a traditional feature for the obverse of Desiderius's starred tremisses. A new inspection of the Ilanz cache in the Rätisches Museum of Chur shows this is not a universal feature. A four-ray star tremissis of Desiderius has been identified in that collection whose presence was hitherto unknown. Moreover, an eight starred-tremissis of the Lombardic king has been recently published in a sale without commentary. The discovery, while requiring the revision of the existing literature, provides new material for the interpretation of the last years of the Lombardic-Carolingian gold coinage.

Cesare Alippi
 Politecnico di Milano
 Dipartimento di Elettronica e Informazione
 Piazza L. Da Vinci 32
 I-20133 Milano

Yves Mühlemann
 Rätisches Museum of Chur
 Loëstrasse 26
 CH-7001 Chur

29 BERNAREGGI 1989 (n. 6), pp. 110–117; BERNAREGGI 1983 (n. 1), pp. 128–131: issue A, before February 774.

30 BERNAREGGI 1989 (n. 6), pp. 110–117; BERNAREGGI 1983 (n. 1), pp. 128–131: issues C and D, minted in 773.

31 BERNAREGGI 1989 (n. 6), pp. 110–117; BERNAREGGI 1983 (n. 1), pp. 128–132: issue D, between 774–781.

32 BERNAREGGI 1989 (n. 6), at p.113; PARDI (n. 3), pp. 92–95.