UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CLEARCORRECT OPERATING, LLC,
Petitioner,

v.

ALIGN TECHNOLOGY INC.,
Patent Owner.

Case IPR2025-00815
U.S. Patent No. 10,524,879

Declaration of Kelley M. Hayes Greenhill Regarding Ex-1006

I. Introduction

1. I have prepared this Declaration in connection with the above referenced *inter partes* review, which I understand will be filed concurrently with this Declaration.

2. I am currently the Director of the Research & Information Services team at Finnegan, Henderson, Farabow, Garrett & Dunner, LLP, located at 901 New York Avenue NW, Washington, District of Columbia, 20001-4413 ("Finnegan").

3. I am over eighteen years of age, and I am competent to make this Declaration. I make this Declaration based on my own personal knowledge and my professional knowledge of library science practices.

4. I earned a Master of Science in Library Science from the Catholic University of America in 1995 and a Bachelor of Arts in Political Science from Duquesne University in 1989. I have worked as a librarian for over twenty-five years. I have been employed at Finnegan, Henderson, Farabow, Garrett & Dunner, LLP, since 2019. Before that, from 1995 to 2015, I was employed in the Library Department of Sterne, Kessler, Goldstein & Fox, PLLC. And from 2015 to 2019, I was employed in the Knowledge and Research Service Group (formerly, Information Research Service) at Northrop Grumman Corporation.

5. I am a member of the American Association of Law Libraries.

II. Standard Library Practices for Receiving, Searching, and Making Materials Publicly Available

6. I have knowledge of and experience with standard library practices regarding the receipt, cataloging, searching, accessing, and making print and electronic materials available to the public. I have knowledge of and experience with the Machine-Readable Cataloging (MARC) system, an industry-wide standard that libraries use to catalog materials. I also have knowledge of and experience with OCLC (previously called Online Computer Library Center, Inc.) and OCLC control numbers, which are unique accession numbers assigned by the OCLC system when a bibliographic record is cataloged and made available to the public through WorldCat. OCLC control numbers are often used by the public to search for specific records within WorldCat, which is an online database of 586,648,074 bibliographic records and 3,521,359,124 holdings from libraries throughout the world as of December 2024. Source: https://www.oclc.org/en/worldcat/inside-worldcat.html.

III. MARC Records

7. The MARC record system was developed during the 1960s to standardize bibliographic catalog records so they could be read by computers and shared among libraries. By the mid-1970s, MARC had become the international standard for cataloging bibliographic materials and is still used today. Many libraries provide public access to their MARC records via the Internet and/or their electronic cataloging systems at the libraries. In a MARC record, each field provides specific

information about the cataloged item, including how materials are held and when they were made available to the public.

8. The MARC record system uses specific three-digit numeric codes ("field tags") from 001-999 to identify each field in a catalog record. For example, field tag 008 provides the six-digit date the item was received and cataloged (date entered on file). The first six characters of field tag 008 are always in the "YYMMDD" format. Descriptions for all of the character positions of field tag 008 are outlined here on the Library of Congress website. *See 008 - All Materials (NR)*, The Library of Congress, https://www.loc.gov/marc/bibliographic/bd008a.html (last visited Nov. 6, 2024).

9. MARC field tags related to this Declaration are explained below. MARC field tag 020 provides the International Standard Book Number (ISBN), a unique identification number assigned to a monographic publication by designated agencies in each country participating in the program. MARC field tag 245 identifies the full title statement for the work, and field tag 260 identifies the place of publication, name of publisher, and copyright date of the publication. MARC field tag 995 details information required to locate and access local holdings.

IV. Monographs

10. A monograph is a comprehensive written study or scholarly work that focuses on a single subject or a specific aspect of a subject. It is a bibliographic

resource that is complete in one volume or intended to be finished in a limited number of volumes. Typically, a monograph refers to a print publication of a single volume. Monographs differ from serial publications, such as magazines, journals, or yearbooks, which are published in installments.

V. Public Availability of Ex-1006 ("*Becker*")

11. This Declaration relates to the public availability of the following reference: Becker, Adrian. *The Orthodontic Treatment of Impacted Teeth*. London, Martin Dunitz, 1998 ("*Becker*"). I understand that *Becker* is being submitted as **Exhibit 1006** in this proceeding.

12. As detailed below, I have reviewed the print *Becker* reference and the National Library of Medicine records for *Becker* to determine the date of public availability for this reference.

13. **Appendix A** to this Declaration is a true and accurate copy of the cover page, title page, and table of contents for Becker, Adrian. *The Orthodontic Treatment of Impacted Teeth.* London, Martin Dunitz, 1998. Appendix A sets forth the unique International Standard Book Number (ISBN) for *Becker* as 1 85317 328 2.

14. **Appendix B** to this Declaration is a true and accurate copy of the National Library of Medicine public catalog record for its copy of *Becker*, which was downloaded from https://catalog.nlm.nih.gov/permalink/01NLM_INST/1o1phhn/alma998400423406

676 on November 14, 2024.

15. The National Library of Medicine public catalog record (**Appendix B**) sets forth the publication and holdings information for its copy of *Becker*. **Appendix B** also denotes that *Becker* bears the ISBN of 9781853173288; ISBN: 1853173282 and is "Available: NLM General Collection 1988 A-772."

16. **Appendix C** to this Declaration is a true and accurate copy of the National Library of Medicine MARC record for its holdings of *Becker*, which was downloaded from https://catalog-utils.nlm.nih.gov/marc/bibs/nlmbib-998400423406676/ on November 14, 2024.

17. **Appendix C** confirms the fixed data elements of MARC field tag 008 as 980430s1998 enk|||| |||| 00||0|eng. As discussed above, the first six characters "980430" are in typical "YYMMDD" format and indicate that *Becker* was cataloged by the National Library of Medicine on April 30, 1998, and bears a publication single known year as 1998.

18. MARC record (**Appendix C**) field tag 020 sets forth the unique ISBN numbers belonging to *Becker* as __ | ‡**a** 9781853173288; __ | ‡**a** 1853173282. MARC field tag 245 sets forth the title and statement of responsibility for 14 | ‡**a** The orthodontic treatment of impacted teeth /‡**c** Adrian Becker. MARC field tag 260 sets forth information relating to the place of publication, printing, distribution, and copyright date for *Becker* as __ | ‡**a** London :‡**b** Martin Dunitz,‡**c** 1998. Finally,

MARC field tag 995 details information required to locate and access local holdings, and denotes __ | ‡**a** AUTH‡**b** 19980430‡**c**REV‡**d** 20180131, which indicates the receipt of the print version of *Becker*.

19. Based on the information set forth in **Appendices A**, **B**, and **C** attached to this Declaration, standard library practices, and my experience as a librarian, *Becker* was received and cataloged by the National Library of Medicine on April 30, 1998.

20. Accordingly, *Becker* would have subsequently been made available to the public within a few days of being checked in and cataloged. The interested public could have accessed *Becker* (i) searching the National Library of Medicine or (ii) by asking a library staff member to direct them to the print resource within a few days of April 30, 1998.

VI. Conclusion

21. In signing this Declaration, I understand it will be filed as evidence in a contested case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I understand I may be subject to cross-examination in this case and that cross-examination will take place within the United States. If cross-examination is required of me, I will appear for cross-examination within the United States during the time allotted for cross-examination.

22. I declare that all statements made herein of my knowledge are true, that all statements made on information and belief are believed to be true, and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Executed on March 7, 2025, in the District of Columbia.

Kelley Hayes Greenhill

Kelley Hayes Greenhill

Appendix A

The Orthodontic Treatment of Impacted Teeth

ADRIAN BECKER BDS, LDS RCS, DDO RCPS

Clinical Associate Professor, Department of Orthodontics, Hebrew University-Hadassah School of Dental Medicine, founded by the Alpha Omega Fraternity, Jerusalem, Israel

MARTIN DUNITZ

© Martin Dunitz Ltd 1998
First published in the United Kingdom in 1998 by

Martin Dunitz Ltd
The Livery House
7–9 Pratt Street
London NW1 0AE

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of the publisher or in accordance with the provisions of the Copyright Act 1988, or under the terms of any licence permitting limited copying issued by the Copyright Licensing Agency, 33–34 Alfred Place, London WC1E 7DP.

A CIP catalogue record for this book is available from the British Library

ISBN 1 85317 328 2

Composition by Wearset, Boldon, Tyne and Wear
Printed and bound in Singapore

This material may be protected by Copyright law (Title 17 U.S. Code)

CONTENTS

Preface vii

1. General principles related to the diagnosis and treatment of impacted teeth 1
2. Radiographic methods related to the diagnosis of impacted teeth 13
3. Surgical exposure of impacted teeth 25
4. Treatment strategy 43
5. Maxillary central incisors 53
6. Palatally impacted canines 85
7. Other single teeth 151
8. Impacted teeth in the adult 179
9. Cleidocranial dysplasia 199

Index 231

ClearCorrect Exhibit 1020, Page 12 of 19

Appendix B

The orthodontic treatment of impacted teeth

- **Statement of Responsibility:** Adrian Becker.
- **Creator(s):** Becker, Adrian.
- **Publisher:** London : Martin Dunitz
- **Creation Date:** 1998
- **Country:** England
- **Language(s):** English
- **Description:** ix, 234 p. : ill.
- **Identifier(s):** ISBN: 9781853173288; ISBN: 1853173282
- **Medical Subject Headings (MeSH):** Tooth, Impacted -- surgery; Orthodontics, Corrective -- methods
- **NLM Unique ID:** 9802266
- **Source:** Library Catalog

Availability and Location:

National Library of Medicine Institution:

- Available:
  - NLM General Collection 1998 A-772

Appendix C

Skip to main content

An official website of the United States government

Here's how you know

Here's how you know

Menu

- MARC Download
- MMS ID Lookup
- Bib Validator

NLM MMS_ID 998400423406676

- Download MARCXML
- Download MARC21

LDR	00891cam a2200301 a 4500
001	998400423406676
005	20211203210129.0
008	980430s1998 enk|||| |||| 00||0|eng
020	__ | **‡a** 9781853173288
020	__ | **‡a** 1853173282
035	__ | **‡9** 9802266
040	__ | **‡a** DNLM**‡c** DNLM
041	0_ | **‡a** eng
044	__ | **‡9** England
060	00 | **‡a** WU 101.5**‡b** B395o 1998
100	1_ | **‡a** Becker, Adrian.
245	14 | **‡a** The orthodontic treatment of impacted teeth /**‡c** Adrian Becker.
260	__ | **‡a** London :**‡b** Martin Dunitz,**‡c** 1998.
300	__ | **‡a** ix, 234 p. :**‡b** ill.
336	__ | **‡a** text**‡b** txt**‡2** rdacontent
337	__ | **‡a** unmediated**‡b** n**‡2** rdamedia
338	__ | **‡a** volume**‡b** nc**‡2** rdacarrier
504	__ | **‡a** Includes bibliographical references and index.
650	12 | **‡a** Tooth, Impacted**‡x** surgery
650	22 | **‡a** Orthodontics, Corrective**‡x** methods
935	__ | **‡a** (DNLM)840042-nlmdb
995	__ | **‡a** AUTH**‡b** 19980430**‡c** REV**‡d** 20180131
999	__ | **‡a** AUTH

Connect with NLM

•

•

•

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Web Policies
FOIA
HHS Vulnerability Disclosure

NLM Support Center
Accessibility
Careers

NLM | NIH | HHS | USA.gov