

JOURNAL OF CLINICAL ORTHODONTICS

VOLUME XLVIII NUMBER 8

AUGUST 2014

The Cover

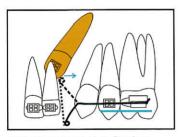
PolyJet photopolymerization is one of the three-dimensional printing technologies covered in the Overview by Drs. Groth, Kravitz, Jones, Graham, and Redmond.



487 Extraction Treatment



500 Canted Incisal Plane



513 Modified K-9 Spring

DEPARTMENTS

The Editor's Corner.	. 461
Book Reviews	. 474
Contributors' Guide .	 . 486
Continuing Education	 . 515
Product News	. 517
Classified	
Index of Advertisers .	

THE HOT SEAT Cone-Beam Computed Tomography

JOHN W. GRAHAM, DDS, MD Ten clinicians compare notes on CBCT usage. 470

OVERVIEW

Three-Dimensional Printing Technology

CHRISTIAN GROTH, DDS, MS; NEAL D. KRAVITZ, DMD, MS; PERRY E. JONES, DDS, MAGD; JOHN W. GRAHAM, DDS, MD; W. RONALD REDMOND, DDS, MS
Orthodontic applications of 3D printers are described.

475

CASE REPORT Accelerated Extraction Treatment with Invisalign

KENJI OJIMA, DDS; CHISATO DAN, DDS; RIKI NISHIYAMA, DDS; SUMIMASA OHTSUKA, DDS, PHD; WERNER SCHUPP, DDS

Microvibration therapy shortens the interval between aligner changes.

487

A New Auxiliary Spring for Correction of a Canted Incisal Plane

MARINO MUSILLI, DDS; FRANCESCO GRAMPONE, DDS; BIRTE MELSEN, DDS, DO A canting spring combines with a continuous archwire.

500

CASE REPORT

Treatment of Bimaxillary Protrusion with Lever-Arm Mechanics and Micro-Implant Anchorage

RYOON-KI HONG, DDS, PHD; SEUNG-MIN LIM, DDS; JUNG-MIN HEO, DDS; JANG-HOON AHN, DDS, MSD, PHD The authors present an alternative for a patient with normal upper-incisor inclination and a gummy smile.

505

TECHNIQUE CLINIC A Modified K-9 Spring for Palatally Impacted Canines

DIPTI SHASTRI, BDS, MDS; PRADEEP TANDON, BDS, MDS; GYAN P. SINGH, BDS, MDS; ALKA SINGH, BDS, MDS
This de-impaction spring can be placed during the alignment phase.

The opinions expressed in the *Journal of Clinical Orthodontics* are those of the writers and do not necessarily reflect the opinions and policies of JCO. Copyright © 2014 JCO, Inc. *Journal of Clinical Orthodontics* (USPS 802-120, ISSN 0022-3875) is published monthly for \$300 per year (U.S. individual rate) by JCO, Inc., 1828 Pearl St., Boulder, CO 80302-5519. Periodicals postage paid at Boulder, CO, and additional mailing office. POSTMASTER: Send address changes to JCO, 1828 Pearl St., Boulder, CO 80302-5519. Phone: (303) 443-1720; e-mail: info@jco-online.com. The material in each issue of JCO is protected by copyright. Instructions and fees for copying articles from JCO are available from the Copyright Clearance Center, (978) 750-8400; www.copyright.com.