

EXHIBIT 1068

IEE Review May 25, 1994, Vellacott Article from University of Essex

TRW Automotive U.S. LLC: EXHIBIT 1068
PETITION FOR *INTER PARTES* REVIEW
OF U.S. PATENT NUMBER 8,599,001
IPR2015-00436

Hissan

Collins, Andrew D <collad@essex.ac.uk>
Thursday, January 07, 2016 3:31 AM

Anis, Hissan

Date Stamp on ILL Request Document
CMOS in Camera.pdf; IEE review 40 3 1994.pdf

Hissan,

Label on the front of the journal lists the date (i.e., May 25, 1994) on which the journal was added to the Library stock.

Collins

Andrew Collins

Student Librarian (Acquisitions)
Stoman Library
University of Essex

06 873173

collad@essex.ac.uk

www.essex.ac.uk

**ARE ESSEX
UNIVERSITY FOR STUDENT SATISFACTION**



IEEE Review

MAY 1994

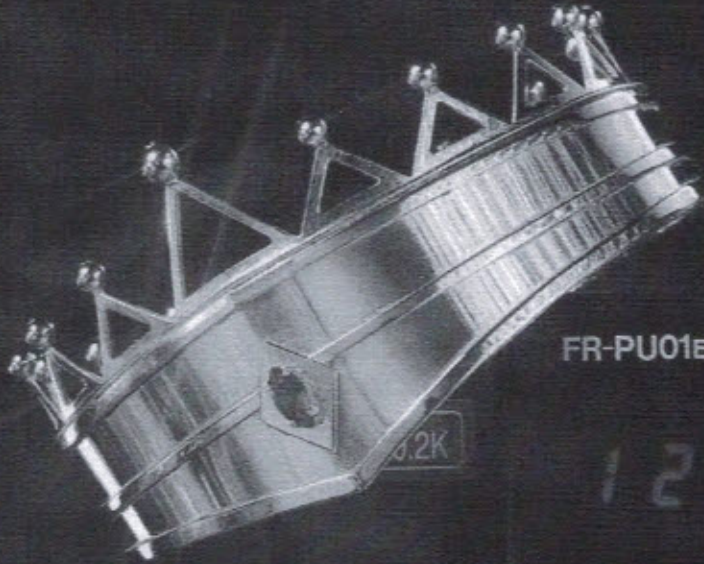
QC1- E5

UNIVERSITY OF ESSEX LIBRARY

25 MAY 1994

CURRENT AND UNBOUND PARTS
OF PERIODICALS ARE NOT
AVAILABLE FOR LOAN

IS NOW EVEN BETTER



FR-PU01E PARAMETER UNIT

120.0

Hz

A

V

MONI-TOR	SET	EXT OP	PU GP
2nd	SHIFT	CLEAR	▲
7 ACCEL	8 DECEL	9 THM	▼
4 HIGH	5 MID	6 LOW	FWD
1 MAX	2 MIN	3 V/F	REV
0 BOOST	· READ	WRITE	STOP

MITSUBISHI

Enter 001

The Z024 set the standard for compact inverters through a successful combination of size, dynamic capability, functionality and low cost.

display, it's set to retain its crown as market leader.

For ease of use and reliability, look to the King of Compacts – the Z024.

Z024
The
COMPACT INVERTER

DOCKET
ALARM

Find authenticated court documents without watermarks at docketalarm.com.



IEE review

19 MAY 1994 VOLUME 40 NUMBER 3

News 98

New products 104

In brief 106

Parliamentary report 116

Letters 122

European report 124

Book reviews 142

Profiting from ideas 107
 Many people have good, original ideas all the time, and a small percentage of them are marketable and potentially profitable. Les Goldstone offers some advice on how to exploit an invention

CMOS in camera 111
 A British research project has given rise to a video-quality camera on a single chip. Oliver Vellacott tells the story.

The growth of microsats 117
 The small satellite, made from cheap, standard components, is revolutionising the space industry, reports Mark Williamson

Cutting out waste 127
 Roger Dettmer takes a look at what the environmental movement, in the field of recycling, is doing to the electronics industry

Discovery and invention 131
 When scientists first began to generate and detect electromagnetic waves, it never occurred to them that they might have practical applications. R.W. Burns explains how it took the arrival of the ambitious young Italian, Marconi, to spur the pure scientists into patenting their ideas

Fibre amplifier comes ashore 136
 Roger Dettmer explains how a new development makes amplification in the optical domain feasible on land, as well as at sea

Whatever happened to British computers? 138
 Why did a thriving, innovative British industry in the 1950s fail to benefit from the explosion in the use of computers? John Kavanagh reports on an attempt to answer this question

Identity crisis 140
 Nicola McGinty feels she has been in every division of the IEE, and doesn't see why she should be pigeonholed

Next issue
 Multilingual speech processing
 ECAD without numbers
 Optical switching

cover photograph courtesy Siemens

IEE Review is published by the Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, United Kingdom. Telephone 071-240 1871. Telex 261176 IEELDN G. Facsimile 071-240 7735

Editorial and advertising offices:
 IEE Publishing Department, Michael Faraday House, Six Hills Way, Stevenage, Herts. SG1 2AY, United Kingdom. Telephone Stevenage (0438) 313311. Telex 825578 IEEESTV G. Facsimile (0438) 313465

Subscription inquiries and orders:
 IEE, PO Box 96, Stevenage, Herts. SG1 2SD, United Kingdom. Telephone Stevenage (0438) 313311. Telex 825962 IEE G. Facsimile (0438) 742792



Jan-Dec 1993 average circulation 121 825.
 MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

Published bimonthly. Annual subscription (including IEE News and IEE Recruitment) is EEC £60-00, International £66-00 (airmail £30-00 extra)

ISSN 0013-5127

Secretary of the IEE:
 J.C. Williams, Ph.D., F.Eng., F.I.E.E.

Editor:
 Tony Prins, Dip.E.E., C.Eng., M.I.E.E.
Technical Editor:
 Roger Dettmer, B.A., M.Sc.

Advertisements:
 Keith Shipston
Advertisement Sales Executives
Southern Area:
 Desmond Harper
 David Edroff
Northern and Scottish Office:
 Peter Field
 IEE, Northgate Office Block
 c/o GEC Ltd.
 PO Box 137, Weellinghouse Road
 Trafford Park, Manchester M60 1AW
 Telephone: 061-872 3024
North American Office:
 Lawler Communications Co. Inc.
 117 Spencer Place, Mamaroneck
 New York, NY 10543 USA
 Telephone: (1) 914 698 6655 Fax: (1) 914 698 2856

The IEE is not as a body responsible for the opinions expressed in IEE Review unless it is stated that an article or a letter officially represents the Council's views

This publication is copyright under the Berne Convention and the Universal Copyright Convention. All rights reserved. Apart from any copying under the UK Copyright, Designs and Patents Act 1988, part 1, section 38, whereby a single copy of an article may be supplied, under certain conditions, for the purposes of research or private study, by a library of a class prescribed by the Copyright (Librarians and Archivists) (Copying of Copyright Material) Regulations 1988, SI 1989/1212, no part of this publication may be reproduced, stored in a retrieval system or transmitted in

Multiple copying of the content of this publication without permission is always illegal.

©1994: The Institution of Electrical Engineers

Web-Offset printing by Woodford Litho Ltd., Witham, Essex, United Kingdom

Authorisation to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by the IEE for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$7.50 per copy is paid directly to CCC, 21 Congress St., Salem MA 01970, USA. This authorisation does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale. Payment is additionally required for copying or articles published prior to 1978.

0013-5127/94 \$7.50+ .00

Editorial Advisory Panel:

Miss Jane Cannon BSc(Eng) AMIEE
 Cannon Electronics
 Eur. Ing. Prof. L.G. Cuthbert BSc(Eng) PhD CEng MIEE
 Queen Mary & Westfield College
 Eur. Ing. Amanda Dowd BSc PhD CEng MIEE
 University of Warwick
 Mr. A.R. Franklin BSc CEng MIEE
 Philips Communications & Security Systems