

SR&ED Newsletter 2014-1

CASE STUDY EXAMPLE USING RDBASE



Results

Conclusions

ii)

iii)

$\underline{RDBASE.NET\ International\ SR\&ED\ template}$

		•		
Ι	\	OBJECTIVE BEYOND STANDARD PRACTICE	Recommended documentation	GOAL: prove to Government (CRA, IRS, patent office)
	i)	State of Existing technology	State benchmarking methods & sources	Limits of information available to someone "skilled in the art."
	ii)	Objective(s)	Top 5 measureable "Objectives"	Quantifiable Objectives beyond known limits
П		TECHNOLOGICAL UNCERTAINTIES	Top 5 "Variables" for experimentation	Formulate "test matrix" to test hypotheses
III		EXPERIMENTAL ACTIVITY	<u>Define</u>	ed by tax year*
	i)	Experimentation method	Number of alternatives tested & how?	Justify sample sizes

Correlate to "Objectives"

Correlate to "Variables"

Provide basis for Conclusions

"New knowledge" illustrates

"Technological Advancement"

STEPS TO ADDRESS "TECHNOLOGICAL ADVANCEMENT" CRITERIA

R&D Base demo - Key Criteria Summary

STEPS

1101 - Machinery - Improve Compounding Equipment

Benchmarks: Internet articles: 33

Patent searches: 12 patents

Competitive products or processes: 14

Similar prior in-house technologies: 8 products /

Potential components: 6 products
Queries to experts: 2 responses

Objectives: Temperature variance: 2 Deg C

Output: 120 output/minute Shear : 12 tons/sq.inch Improve Dispersivity : 1 mm

Maximum cost increase : 15 %

1) UPLOAD PRIOR ART

- try to include Google

patents

Uncertainty: 1 - Temperature Control

Key Variables: 1 optimal measurement devices

HYPOTHESES 2 device locations,

3 vibration - locations, intensity, duration

2) CORRELATE prior art to VARIABLES for experiments

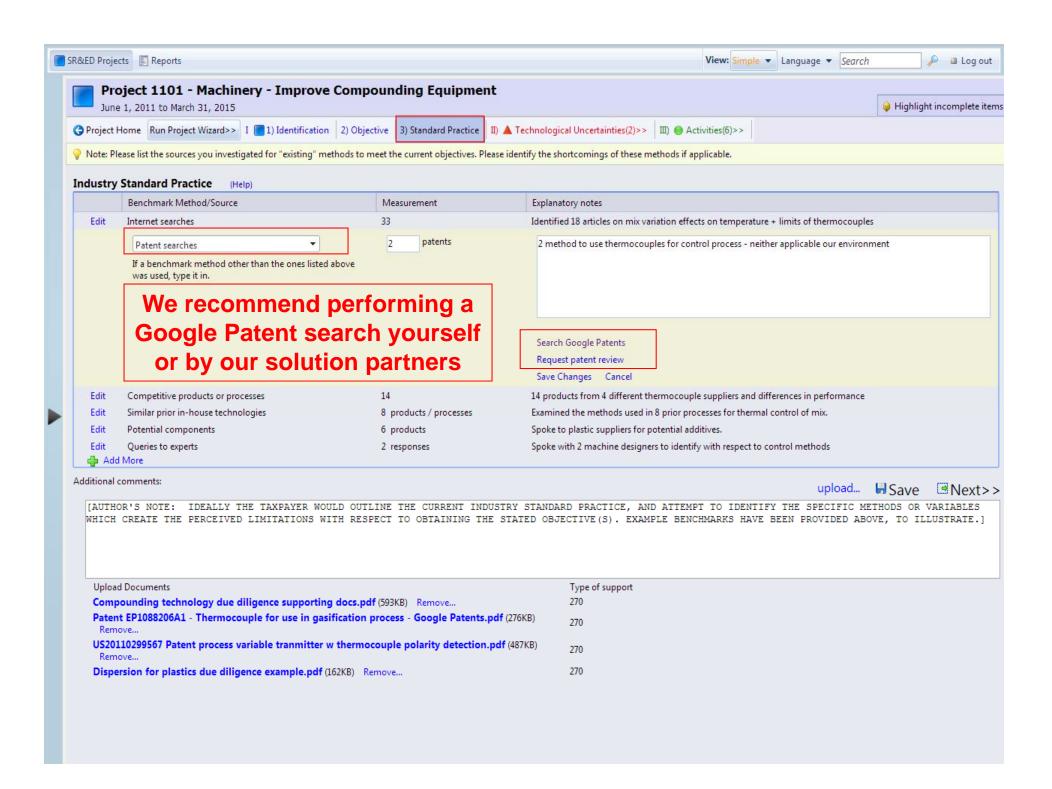
Activity	Testing Methods	Results - % of Objective	Variables Concluded	Hours	Materials \$	Subcontractor \$	Fiscal Year
1 - Thermocouples	Analysis / simulation: 12 alternatives	Temperature variance: 4 Deg C (33 %) Output: 100 output/minute (0 %) Improve Dispersivity: 0.6 mm (20 %)	device locations vibration - locations, intensity, duration	272.00	4,500.00	3,796.10	2011
2 - Fiber Optic System Optimization	Analysis / simulation: 6 alternatives Trails: 4420 runs / samples	Temperature variance: 1 Deg C (133 %) Output: 112 output/minute (60 %)	device locations optimal measurement	370.00	2,000.00	1,496.76	2011
	Physical prototypes: 14 samples Lines of code: 5 Lines of prototype code	Shear: 13 tons/sq.inch (150 %) Improve Dispersivity: 0.9 mm (80 %) Maximum cost increase: 20 % (133 %)	devices				

3) UPLOAD ANALYSIS of Variables

Stage 1 – Prior Art search (Due Dilgence)

Recommendations to address RFI procedures on Standard practice

PRO	<u>OJECT OBJECTIVE BEYO</u>	ND STANDARD	PRACTICE:	GOAL is to prove to Government (CRA, IRS, etc
i)	State of Existing technolog	gy: Benchmarking	methods & sources	Technology limits of "readily
		Number (#) of		available" information to someon "skilled in the art."
i	Internet / Google Searches		internet sites	
ii	Articles		articles	
iii	Patent searches		patents	
iv	Competitive methods		products / processes	
v	In-house technologies		products / processes	
vi	Potential components		products	
vii	Queries to experts		responses	
viii	Other		- -	
ii)	Objective(s)	Performance b	enchmarks (top 5)*	Quantifiable Objectives
ŕ		Benchmark 1	Benchmark 2	beyond known limits
i	Existing benchmark			
ii	Units of measure			
iii	Performance objective			
iv	Result (III below)*			



Steps 1&2 – Objectives & Variables for search

1101 - Machinery - Improve Compounding Equipment

Benchmarks: Internet searches: 33

Patent searches: 2 patents

Competitive products or processes: 14

Similar prior in-house technologies: 8 products /

Potential components: 6 products Queries to experts: 2 responses

Uncertainty: 1 - Temperature Control

Objectives: Temperature variance: 2 Deg C

Output: 120 output/minute Shear : 12 tons/sq.inch Improve Dispersivity : 1 mm Maximum cost increase : 15 %

Key Variables: device locations, optimal measurement devices,

vibration - locations, intensity, duration

RDBASE - Prior Art Search Example

X - designate as term to search on patent databases

Project name

X Improve compounding

TO/FOR Objectives

X Temperature variance

Output

Shear

Dispersivity

Cost

BY Key variables (to achieve objectives)

optimal measurement devices

device locations

X vibration - locations, intensity, duration

Web

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Search tools

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Computer-controlled compounding extrusion blending ...

www.google.com/patents/US7070404

Grant - Filed 25 Oct 2002 - Issued 4 Jul 2006 - Daniel Joseph MacPhee - Macphee Daniel Joseph

An extruder apparatus for compounding thermoplastic resin and ... wherein said extrusion system further comprises a low shear barrier screw inside a Some compounding extruders introduce room-temperature fibers Additionally, to improve the precision of loads provided to chamber 228, a vibration ...

Overview - Related - Discuss

Elastomeric vehicle vibration damping devices

image not available www.google.com/patents/WO1997000290A1?cl=en App. - Filed 13 Jun 1996 - Published 3 Jan 1997 - Eric Paul Jourdain - Exxon Chemical Patents Inc

Motor vehicle **vibration** damping parts based on an ethylene, ... more functions and **equipment** are finding their way into the engine compartment. ... Natural rubber's self-plasticizing charcteristic at **compounding**

temperatures allows a \dots by viscosity at high shear and injection temperatures, improved cure \dots

Overview - Related - Discuss

Elastomeric vehicle vibration damping devices



www.google.com/patents/EP0843700B1?cl=en
Grant - Filed 13 Jun 1996 - Issued 15 Nov 2000 - Eric Paul Jourdain - Exxon
Chemical Patents Inc.

Motor vehicle vibration damping parts based on an ethylene, ... more functions and equipment are finding their way into the engine compartment.

... Natural rubber's self-plasticizing charcteristic at compounding temperatures allows a by viscosity at high shear and injection temperatures, improved cure ...

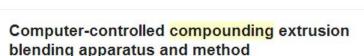
Overview - Related - Discuss

Plastic surfaces having improved surface characteristics

image not available www.google.com/patents/US8722761 Grant - Filed 29 Oct 2009 - Issued 13 May 2014 - Narayanan Sankara Subramanian - E I Du Pont De Nemours And Company

A need exists for parts that have **improved** surface properties that are stable over out using a twin screw extruder or other polymer processing

Enter initial search terms in Google Patents to find "Prior Art" then select the most relevant item



US 7070404 B2

Application

ABSTRACT

Patents

An extruder apparatus for compounding thermoplastic resin and reinforcing fibers is disclosed. Molten thermoplastic resin is mixed in intimate contact with long reinforcing fibers of at least one and one quarter inches in length under the control of a sophisticated computer system, resulting in charge ready for molding.

Publication number US7070404 B2 Publication type Grant Application number US 10/279.939 Publication date Jul 4 2006 Oct 25, 2002 Filing date Priority date ? Oct 25, 2002 Fee status ? Lapsed Also published as US20040080064

Inventors Daniel Joseph MacPhee, Christopher Mark

Find prior art

Original Assignee Macphee Daniel Joseph, Christopher Mark

Export Citation

BiBTeX, EndNote, RefMan

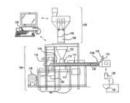
Patent Citations (11), Classifications (37), Legal Events (3) External Links: USPTO, USPTO Assignment, Espacenet

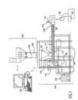
We can then a) View Cited patents directly OR

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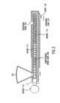
b) Use the prior art tool

IMAGES (17)



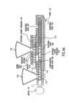
















Discuss this patent

View PDF

DESCRIPTION

FIELD OF THE INVENTION

This invention relates generally to extrusion compounding of resin with reinforcing fibers under control of a computer. More particularly, an extruder apparatus and process for producing a preform charge suitable for subsequent use in a molding operation, such as compression molding, is disclosed.

BACKGROUND OF THE INVENTION

Fibers and resins are normally introduced together into a compounding extruder in a solid state. Upon first being converted from a solid to a liquid by a combination

CLAIMS (24)

- 1. A compounding extruding and blending apparatus, comprising:
 - a blending system comprising a closed-loop auger feeder, responsive to a computer system;

wherein said blending system further comprises a vacuum loader and thermoplastic dryer, and includes dual paths which either incorporate or bypass said dryer and the choice of said paths can be made through said computer;

an extrusion system for forming a charge from the output of said blending

PATENT CITATIONS

A) Citations: Allow users to review related patents

Filing date	Publication date	Applicant	Title
Apr 30, 1976	Jan 3, 1978	Whitlock, Inc.	Control for hopper loader for granular materials
Jul 16, 1984	Sep 23, 1986	Harrel, Incorporated	Based on volume per unit time of extrudate being formed
Apr 19, 1990	Oct 1, 1991	Akebono Brake Industry Co., Ltd.	Apparatus for blending friction material
Feb 3, 1992	Jul 6, 1993	Abc Group	Bottle recycling apparatus and method
Jun 5, 1992	Aug 31, 1993	Bluffton Agri/Industrial Corp.	Continuous flow system for mixing and processing bulk ingredients
Jun 30, 1993	Mar 28, 1995	Long; Michael C.	Injection molding valve
Oct 3, 1996	Aug 11, 1998	Warner-Lambert Company	Elastomer processing system for chewing gum
Jul 15, 1999	Jul 17, 2001	Ralston Purina Company	Extruder with variable restriction element
Jan 24, 2001	Jul 26, 2001	Abrams Fredric Louis	Plasticator and molding system and method
Mar 3, 1999	Sep 23, 1999	Siemens Ag	Plastic product production machine e.g. an injection molding machine, extruder or blow molding machine
Jun 24, 2000	Aug 29, 2001	Negri Bossi S.P.A.	Network connection system for machine tools, particulary injection presses for plastics
	Apr 30, 1976 Jul 16, 1984 Apr 19, 1990 Feb 3, 1992 Jun 5, 1992 Jun 30, 1993 Oct 3, 1996 Jul 15, 1999 Jan 24, 2001 Mar 3, 1999	Apr 30, 1976 Jan 3, 1978 Jul 16, 1984 Sep 23, 1986 Apr 19, 1990 Oct 1, 1991 Feb 3, 1992 Jul 6, 1993 Jun 5, 1992 Aug 31, 1993 Jun 30, 1993 Mar 28, 1995 Oct 3, 1996 Aug 11, 1998 Jul 15, 1999 Jul 17, 2001 Jan 24, 2001 Jul 26, 2001 Mar 3, 1999 Sep 23, 1999	Apr 30, 1976 Jan 3, 1978 Whitlock, Inc. Jul 16, 1984 Sep 23, 1986 Harrel, Incorporated Apr 19, 1990 Oct 1, 1991 Akebono Brake Industry Co., Ltd. Feb 3, 1992 Jul 6, 1993 Abc Group Jun 5, 1992 Aug 31, 1993 Bluffton Agri/Industrial Corp. Jun 30, 1993 Mar 28, 1995 Long; Michael C. Oct 3, 1996 Aug 11, 1998 Warner-Lambert Company Jul 15, 1999 Jul 17, 2001 Ralston Purina Company Jan 24, 2001 Jul 26, 2001 Abrams Fredric Louis Mar 3, 1999 Sep 23, 1999 Siemens Ag

^{*} Cited by examiner

CLASSIFICATIONS

U.S. Classification	425/113, 425/149, 425/311
International Classification	B29C47/96, B29C47/10, B29C47/92
Cooperative Classification	B29C47/369, B29K2105/16, B29C47/1027, B29C47/1018, B29C2947/92704, B29K2105/08, B29C47/02, B29C47/0009, B29C2947/92638, B29C2947/92933, B29C2947/92676, B29C2947/924, B29C2947/92857, B29C2947/9259, B29K2105/06, B29C2947/92657, B29C2947/92533, B29C2947/92828, B29C2947/92895, B29C47/1045, B29C47/96, B29C47/92, B29C2947/926, B29C2947/92952, B29C47/10, B29C2947/92019, B29C47/004, B29C2947/9209
European Classification	B29C47/96, B29C47/10, B29C47/92

LEGAL EVENTS

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B) Prior Art Finder creates 5 separate top 10 lists

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Search Terms

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✓ reinforcing fibers	×
compounding thermoplastic resin	×
✓ charge ready	×
quarter inches	×
molten thermoplastic resin	×
compounding extrusion	×
extrusion blending	×
intimate contact	×
computer-controlled	×
molding	×

Custom Date Range

End date:

Start date: MM/DD/YYYY

10/25/2002

Fiber-reinforced composites: materials, manufacturing, and design

PK Mallick - 1993

... Thus, even though the **fibers** provide **reinforcement** for the matrix, the latter also serves a number of useful functions in a **fiber-reinforced** composite material. The principal **fibers** in commercial use are various types of glass and carbon as well as Kevlar 49. ...

Mechanical degradation of glass fibers during compounding with polypropylene

B Fisa - Polymer composites, 1985

... new high performance/high **cost** engineering **thermoplastics** require that the **reinforcing** effect be ... 3) studied single screw extrusion **compound**- ing of several glass **reinforced resins** and found ... 2.65 mm); undispersed bundles predominate with a small number of individual **fibers**. ...

The **reinforced** plastics handbook

J Murphy - 1998

... The concept of **reinforcing** a **resin** is as old as the first really synthetic ... 15 and F, 16 fighters in 1974 and, two years later, boron **fibre**, **reinforced** epoxy was ... based on polyetherketones offered an interesting alternative to airframe manufacturers, with **resin reinforcement** systems in ...

Process modeling in composites manufacturing

SG Advani. EM Sozer - 2002

... Preface Properties and performance of products made from **fiber reinforced** composites depend on materials, design, and ... The end of each chapter has questions and problems that **reinforce** the content and ... knitting, or stitching, shaped into 2-D or 3-D **reinforcing** fabrics before ...

Rotatably driving extruding screw, introducing reinforcing fibers, ...

---- www.g

www.google.com/patents/US5185117

Grant - Filed Jul 10, 1991 - Issued Feb 9, 1993 - Ronald C. Hawley - Composite Products, Inc.

A process for **compounding reinforcing fibers** with a **thermoplastic resin** in an The mold is opened and the part is removed so that the cycle is **ready** to be ... Further disadvantages are that the molder must pay the **cost** of **compounding** the

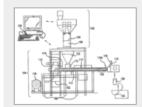
Extruder apparatus and process for compounding thermoplastic resin ...



www.google.com/patents/US5165941

Grant - Filed Jul 11, 1991 - Issued Nov 24, 1992 - Ronald C. Hawley - Composite Products, Inc.

Patent US7070404



Computercontrolled compounding extrusion blending apparatus and method

Show Claims

Inventors: Daniel Joseph MacPhee, Christopher

Mark Tanner

Assignees: Macphee Daniel Joseph, Christopher

Mark Tanner

Patent number: US7070404 Application number: 10/279,939

Filing date: Oct 25, 2002 Issue date: Jul 4, 2006

Discuss this Patent

Google

Prior Art Finder

Update search terms then export top 10 list

Top 10 Scholar Patents Web Books People

	_		Ехр	oort	
+David	***	1 0	Share		

Search Terms Add your own ✓ DISPERSIVITY ✓ SHEAR × reinforcing fibers × compounding × thermoplastic resin charge ready × quarter inches × molten thermoplastic × resin compounding extrusion extrusion blending × intimate contact × computer-controlled × molding ×

Custom Date Range

Start date: MM/DD/YYYY

End date:

10/25/2002

Processing and characterization of aligned vapor grown carbon **fiber** reinforced polypropylene

RJ Kuriger, MK Alam, DP Anderson, RL Jacobsen - Composites Part A: Applied ..., 2002 ... [21] that **fiber dispersion** could be ... It consisted of a feeding zone, a compression zone, a conveying zone, a **shearing** zone, a venting zone, and a metering zone. ... The longitudinal tensile strength (σ L) is found by using the rule of mixtures and the **shear** lag model of Kelly and ...

Effect of compounding on the properties of short fiber reinforced injection moldable thermoplastic composites

DM Bigg - Polymer composites, 1985

... This results in considerable **shear**-induced fi- ber breakage during **compounding** and molding. ... Fig. 2. Effect of mixing conditions in injection molder on theftber **dispersion** in parts molded from ... dry **blends** cannot be achieved between pellets and **fibers**, and the **shearing** forces of ...

Mechanical degradation of glass fibers during compounding with polypropylene

B Fisa - Polymer composites, 1985

... reinforced resins, the advent of new high performance/high cost engineering thermoplastics require that the reinforcing effect be ... These fibers are much more likely to break as a result of shear stresses in the melt ... As the dispersion im- proves due to longer compounding times (Fig ...

Novel **reinforced** polymers based on **blends** of polystyrene and a thermotropic liquid crystalline polymer

RA Weiss, W Huh, L Nicolais - Polymer Engineering & Science, 1987

... energy intensive (1 -6). In addition, it is difficult to achieve a uniform **dispersion** of **fibers** ... in mechan- ical properties for the **blend** similar to those attained by adding **reinforcing fibers** to the ... At the higher **shear** rates, measured with the capillary viscometer, an inversion of the viscos ...

Method for making fiber-reinforced plastics



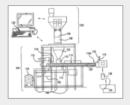
www.google.com/patents/US4927579

Grant - Filed Apr 8, 1988 - Issued May 22, 1990 - Eugene R. Moore - The Dow Chemical Company

A method for adding intact fiber reinforcing material into thermoplastic resin ... low to medium shear, injecting the resulting mixture into an extruder with a resin to be reinforced ... for recycle while the reinforcing glass fiber and polymer blend is extruded. ... blending said dispersion into a molten polymer to be reinforced; and.

Uniform dispersion in thermoplastic adhesive

Patent US7070404



Computercontrolled compounding extrusion blending apparatus and method

Show Claims

Inventors: Daniel Joseph MacPhee, Christopher

Mark Tanner

Assignees: Macphee Daniel Joseph, Christopher

Mark Tanner

Patent number: US7070404 Application number: 10/279,939 Filing date: Oct 25, 2002

Issue date: Oct 25, 2002

Discuss this Patent

Stage 2 – Uploading "Prior Art - Due Diligence" data to RDBASE

Google Prior Art Finder

Report for US7070404 - 06/19/2014

Search Terms

DISPERSIVITY, SHEAR, reinforcing fibers, compounding thermoplastic resin, extrusion blending

Search Results - Top 10's 1) Scholarly articles

Users can export & save this list then review related docs

Title

URL

Processing and characterization of aligned vap http://www.sciencedirect.com/science/article/pii/S1359835X01000707

Effect of compounding on the properties of sh http://onlinelibrary.wiley.com/doi/10.1002/pc.750060105/abstract

Mechanical degradation of glass fibers during (http://onlinelibrary.wiley.com/doi/10.1002/pc.750060408/abstract

Novel reinforced polymers based on blends of http://waynedev.uakron.edu/cpspe/documents/weisspublications/WeissHuhNicolaisPES1987.pdf

In situ composites: blends of isotropic polyme http://onlinelibrary.wiley.com/doi/10.1002/pen.760270606/abstract

Mechanical property enhancement of glass fib http://www.sciencedirect.com/science/article/pii/1359835X95000384

Low temperature processing of ultra-pure cell http://www.fpl.fs.fed.us/documnts/pdf2002/jacob02a.pdf?origin=publication detail

Composites reinforced with cellulose based fi http://www.sciencedirect.com/science/article/pii/S0079670098000185

A technology review of wood-plastic composit http://www.wpcinfo.org/techinfo/documents/wpc overview.pdf

Thermoplastics reinforced with wood fillers: a http://www.tandfonline.com/doi/abs/10.1080/03602559808001373

2) Patents

<u>Title</u>	<u>URL</u>	Published Date	Inventor	Assignee
Method for making fiber-reinforced plastics	http://www.google.com/patents/US4927579	Issued May 22, 1990	Eugene R. Moore	The Dow Chemical Company
Uniform dispersion in thermoplastic adhesive	e http://www.google.com/patents/US4944965	Issued Jul 31, 1990	Bruce A. Luxon	American Cyanamid
Mixing of filamentary reinforcing material wi	tlhttp://www.google.com/patents/US3453356	Issued Jul 1, 1969	Raymond W Kent Jr	Dow Chemical Co
Extruded thermoplastic articles having impro	v http://www.google.com/patents/EP0379730A2	Published Aug 1, 199	Robert Russel Galluc	c General Electric Company
Method for molding glass-filled thermoplasti	c http://www.google.com/patents/US4402902	Issued Sep 6, 1983	John C. Falk	Borg-Warner Corporation
Method for improving fiber dispersion and or	ri-http://www.google.com/patents/US6756429	Issued Jun 29, 2004	Joseph R. Webster	Clariant Finance (Bvi) Limited
Improved glass-filled thermoplastic resins	http://www.google.com/patents/EP0081230A1	Published Jun 15, 19	8John Carl Falk	Borg-Warner Chemicals Inc.
Glass fiber reinforced resins containing dispe	r:http://www.google.com/patents/US3639331	Issued Feb 1, 1972	Hattori Kiyoshi	Dart Ind Inc
Molded article of fiber-reinforced thermopla	s http://www.google.com/patents/US5866256	Issued Feb 2, 1999	Tatsuo Izumitani	Daicel Chemical Industries, Ltd.
Method for creating a billet for molding a par	t http://www.google.com/patents/US6190586	Issued Feb 20, 2001	Fredric Louis Abrams	Composite Technologies Co., Llc

3) Web

Title URL

Thermoplastic Composites - Technology & Bus http://www.tifac.org.in/index.php?option=com content&id=535:thermoplastic-composites-technology-a-business-opportunities&c Compounding http://www.ril.com/downloads/pdf/compounding.pdf

Patent US4044188 - Stampable thermoplastic s http://www.google.com/patents/US4044188

Patent EP0084152B1 - Sized glass fibers for the https://www.google.com/patents/EP0084152B1?cl=en

http://scholar.lib.vt.edu/theses/available/etd-0898-145634/unrestricted/CH2.PDF 2.0 Literature Review

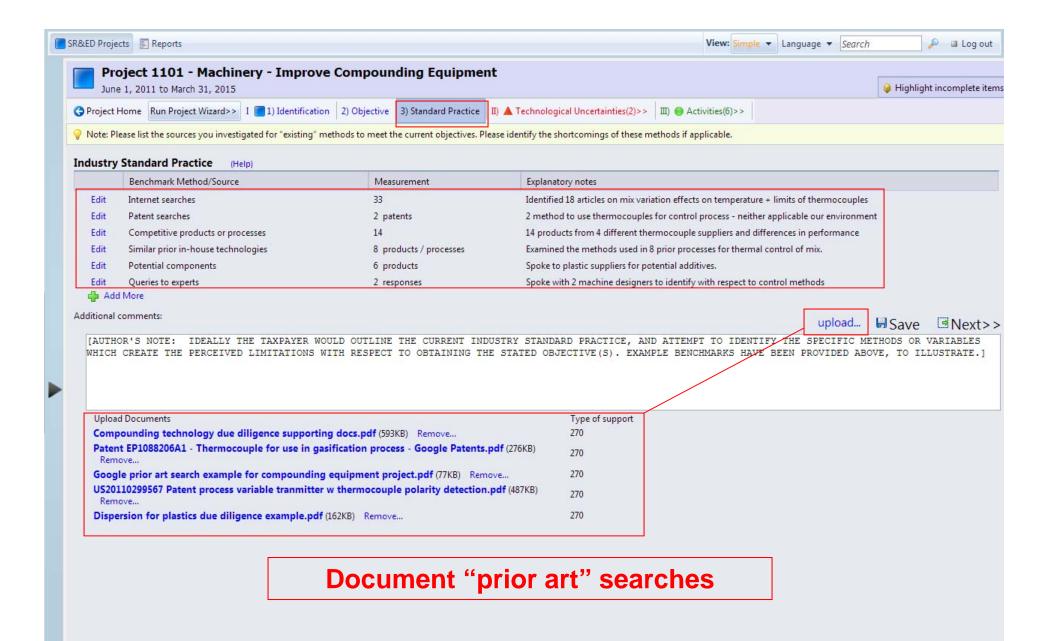
Development of the Morphology and Crystallii http://www3.ntu.edu.sg/home/sreekumar/paper2.pdf

English/Metric Conversion Chart - BASF http://www2.basf.us/PLASTICSWEB/displayanyfile?id=0901a5e180004879

:5,'<'(thermoplos'cic resin T9 | Melting point - http://patentimages.storage.googleapis.com/pdfs/US5866256.pdf

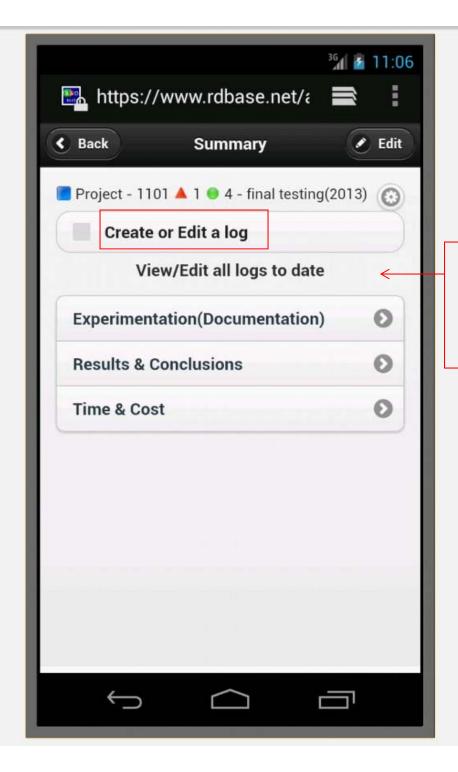
SABIC-PLA-751 Injection Molding - Control Plashttp://www.controlplastics.com/injection molding/HealthcareEdu/SABIC-PLA-751 Injection Molding.pdf

4) Books



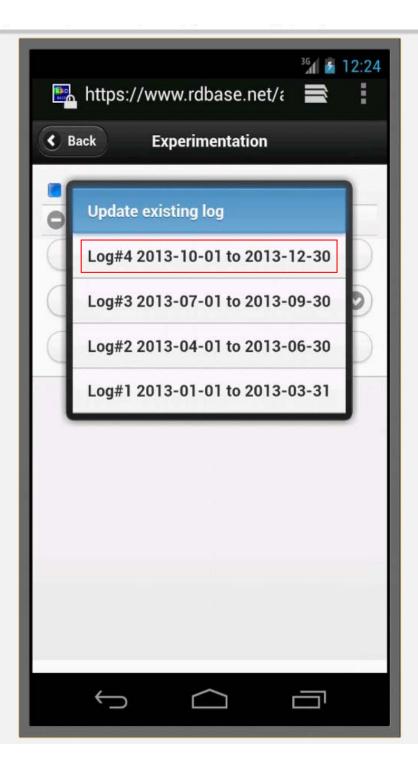
Stage 3 - Recommendations to address Documentation of experiments

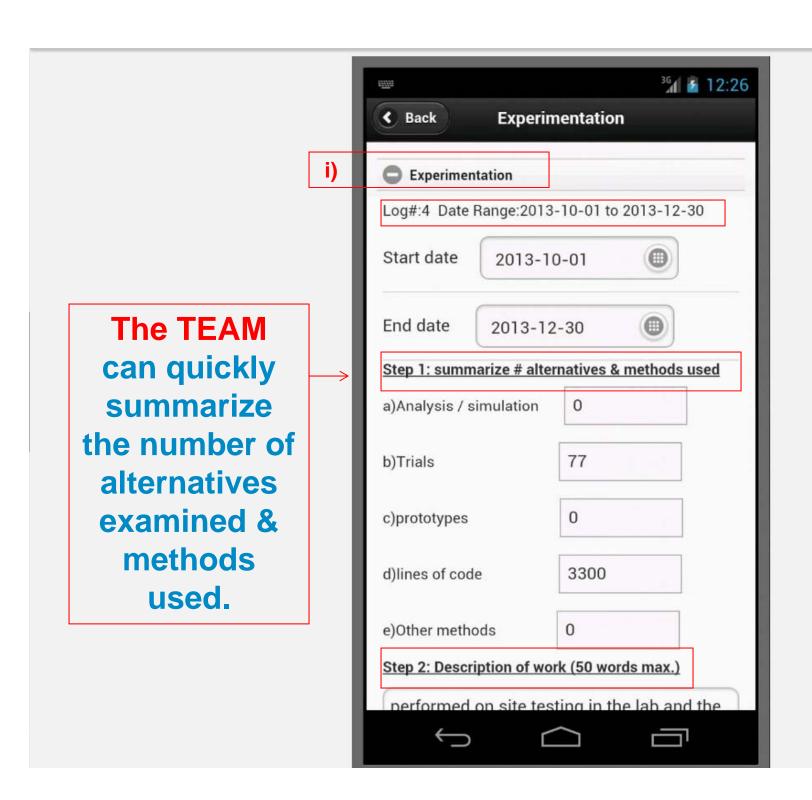
III		EXPERIMENTAL ACTIVITY	Defined by tax year*			
	i)	Experimentation method	Number of alternatives tested & how?	Justify sample sizes & retain evidence of experiments		
	ii)	Results	Correlate to "Objectives"	Provide basis for Conclusions		
	iii)	Conclusions	Correlate to "Variables"	"New knowledge" illustrates "Technological Advancement"		

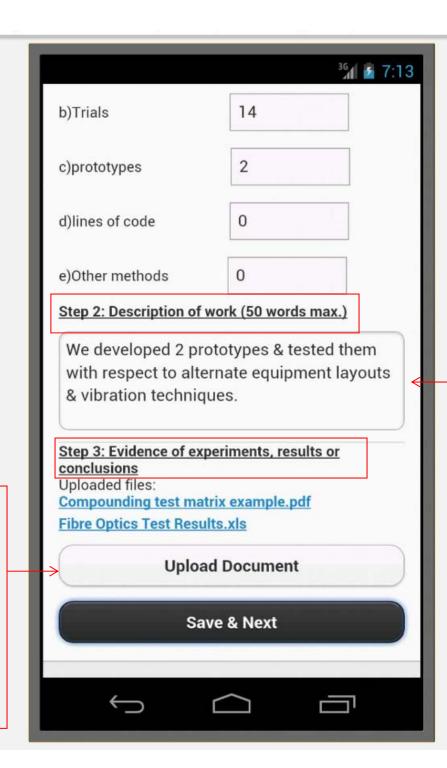


view ALL logs for the year

or any desired "log intervals"







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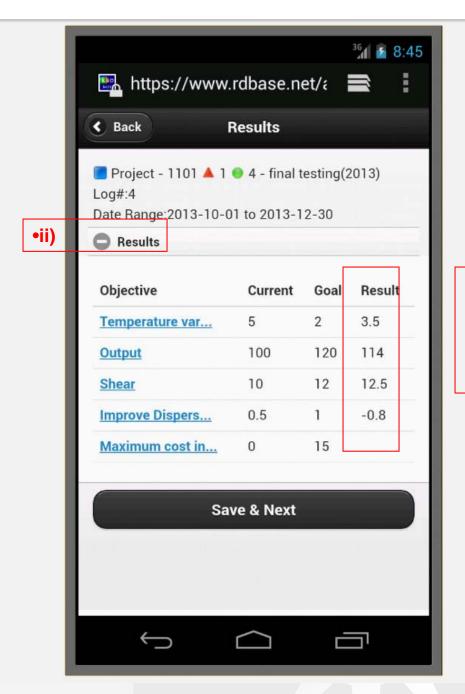
voice to text

function on

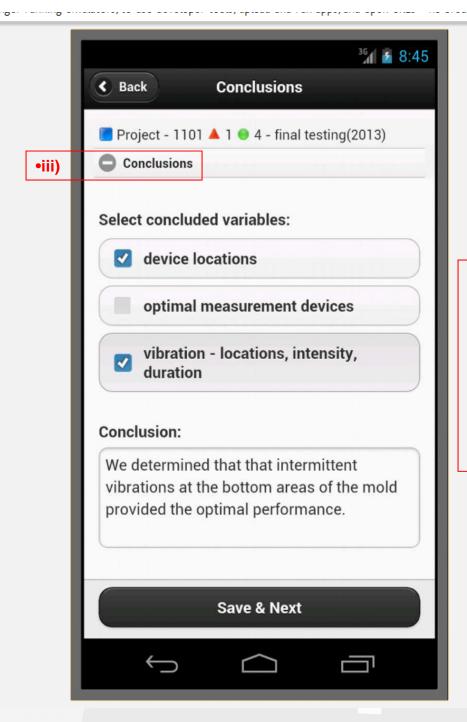
most

phones.

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Compare results to objectives...



& provide
"conclusions"
on "variables"
of research
= Advancements

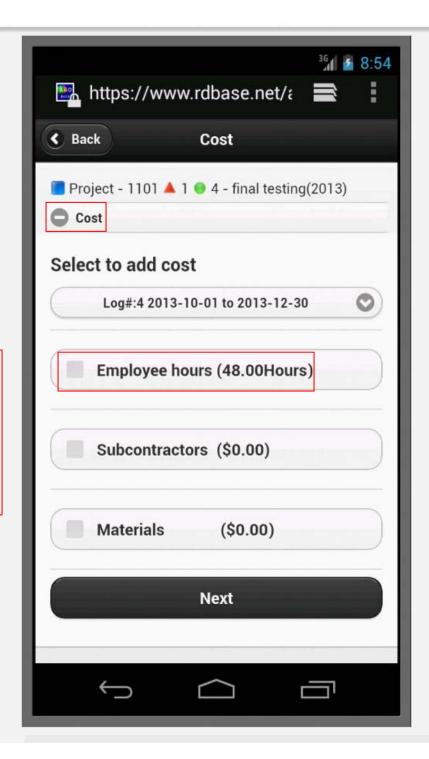
Recommended timesheet details to address RFI procedures

Recommended Employee time detail for SR&ED

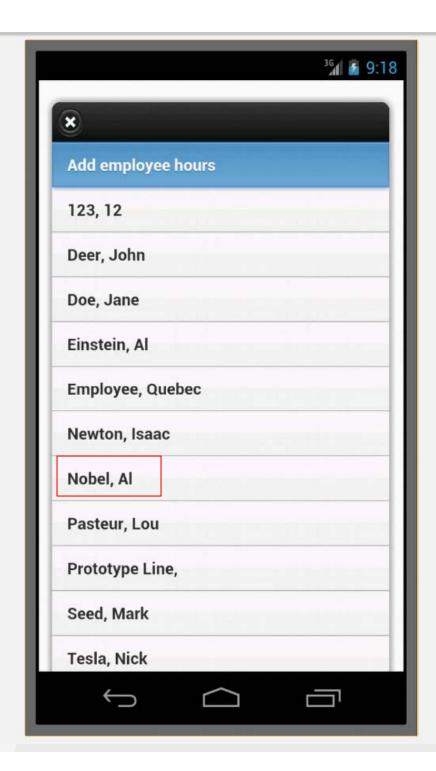
(record for each project / each year)

Employee details			Linking work to SR&ED				SR&ED wages	
		Hours					hourly \$	
First Name	Last Name	Worked	Type of work	Variables researched	Comments	Location	rate	SR&ED \$
			1) Design	OPTIONAL - Link	OPTIONAL - should be	Country +		
			2) Testing	to the variables in	completed by the more	Province		
			3) Programming	the project	senior people if possible.	or State		
			4) Supervision					
ALREADY EXISTS most systems			This information is MISSING in most time reporting systems			Comple	ete @ y/e	
NEED TOTALS B	YSTATE/ PROV	INCE						s -

Finally we can "log" all related costs

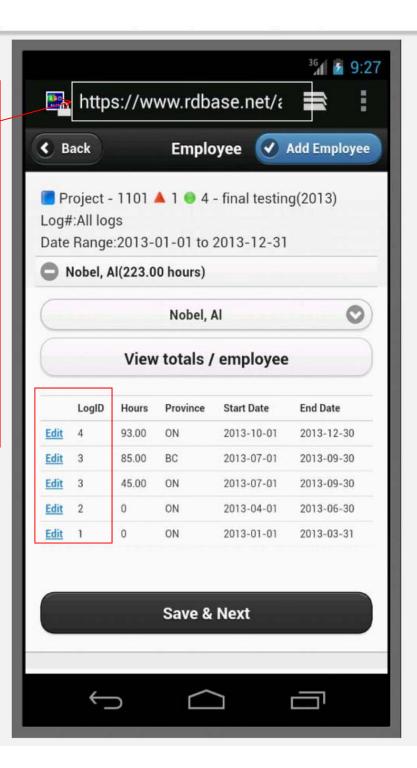


By employee or supplier



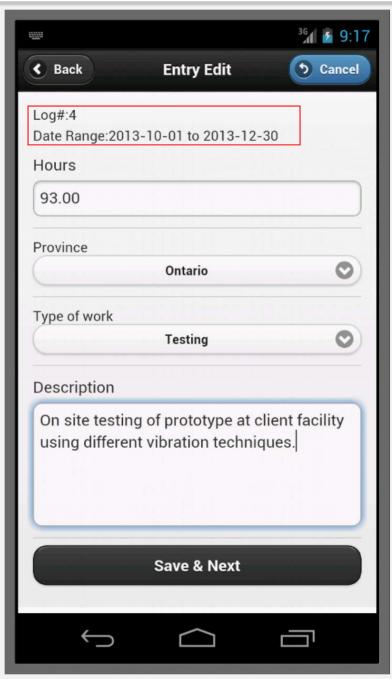
Team co- ordination

Managers
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page links
to
Researchers.



Researchers can enter their time

Including descriptions of work for each log period



Stage 4 – filing claims for Patents, Grants & Tax Credits

General Inquiries:

1-888-445-6385

rdbase@rdbase.net

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SR&ED tax credits & Grants

Patent & Intellectual Property filings

Live Chat

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