AMAZING FEATS OF SURGERY BY **NOBEL WINNER**

Dr. Alexis Carrell Has Conducted Many Weird Experiments in Prolonging Life.

Has Found Method to Store Up Tissues From Dead For Use on Pa-

deveral weeks. After six seven or even ten months the microscopical appearance of the arteries was not marked, modified.

The results obtained demonstrate that human tissue preserved in cold storage could be used in humane surgery. Future investigations will show in what measure tissues of infants should be employed as grafts. The tissues actually used in human surgery, as cartilage, perfotcum, skin and aponeuroses, could easily be taken in farge quantities from the fresh cadavers of foetueses and infants and preserved in vaseline and in cold storage.

A supply of tissues in latent life would be constantly ready for use, and the tubes containing the tissues could even be sent in small refrigerators of type of the thermos bottle to surgeons who needed them. It would simplify very much transplantation of skin, bone, periosteut and aponeuroses, which are more and more used in human surgery.

Previous to his discovery that heart tissue could be made to live after separation from the body Dr. Carrel already had had a remarkable career. This work had to do with transplanting vital organs and tissues, and with improved methods of the transfusion of blood. Here is one case of the latter.

On March 4, 1908, a daughter was born to a well-known surgeon and his wife. The child beed from the mouth, nose and intestines, and vomited blood. On March 8 the baby was near death.

4 How a Babv'e Life Was Saved.

In this extremeity the surgeon-father invoked the aid of Dr. Carrel and the surgeon-father invoked the aid of Dr. Carrel in this extremeity the surgeon-father invoked the aid of Dr. Carrel in this extremeity the surgeon-father invoked the aid of Dr. Carrel in this extremeity the surgeon-father invoked the aid of Dr. Carrel in this extremeity the surgeon-father invoked the aid of Dr. Carrel in the council for had the council for had the council for had the society size of the city council, the society as received promises of large sums received promises of large sums received promises of large sums received promises of larg

near death.

How a Baby's Life Was Saved.
In this extremelty the surgeonfather invoked the aid of Dr. Carrel,
with whose skill and theories he was
familiar. Dr. Carrel, assisted by Dr.
George E. Brewer, surgeon to Rooseveit Hospital, New York, proceeded as
follows:

a friend of theirs, and that he is still
just as popular with the boys and girls
of today. But such is the fact, and,
judging from the shopping crowds, the
spirit of Christmas has taken a firm
hold on this community.

After the last present has been se-

veit Hospital, New York, proceeded as follows:

The right leg of the child was held firmly and the incision was made in the hollow back of the knee, exposing a large vein which was severed. An incision was then made in the left wrist of the child's father and the radial artery, or pulse, exposed. This artery likewise was cut, and Dr. Carrel, whose technique in this line of work is described as amazing by his conferes, then proceeded to sew an end of the father's severed artery to an end of the child's severed vein.

After the last present has been selected there is always someone who has been overlooked. Such an emergency may be taken care of by taking advantage of The World's Bible offer. The \$5 volume is just about the nicest book for presentation purposes ever thought of, and all that is required to expense bonus amount to defray the expense items of distribution. What better could you ask? A Bible is at once appropriate and useful, but this particular Bible contains:

Illustrations in the type matter.

of the father's severed artery to an end of the child's severed vein.

Here was direct transfusion of blood. For some time the father's blood was allowed to flew into the anaemic and impoverished system of the child. In a few moments the baby's skin took on a healthy glow. As if by magic the vomiting and hemorrhage ceased, not to recur. In a word, the child was dying one minute, the next minute was a strong, healthy child.

Weird Vivisection Operations

a strong, healthy child.

Weird Vivisection Operations.

Dr. Carrel has made many transplantations of organs in animals. Here is the way one was done: Having anaesthetized a cat so that the subsequent operation was absolutely painless. Dr. Carrel removed the kidneys, together with their blood vessels, the aorta (the dargest artery in the body), the vena cava (the largest vein in the body), the nerves, the nervous ganglia (or centres), the urethers (the tubes running from the kidneys to the bladder), and part of the bladder. These organs were replaced by similar organs from another cat. The cat with the new organs recovered and the organs resumed their functions.

"No therapeutic value can be expected from a graft of kidneys," said Dr. Carrel, in commenting on this par-

A Little Sage and Sulphur Makes Gray Hair Vanish-A Remedy For All Hair Troubles.

IN ANOTHER LOCATION

of latent or active Society For Prevention of Cruelty to Animals Decides to Extend Their Work.

Santa Claus Is Just as Popular

Full-page monotones.
Color-plate engravings.
Engraved maps in color.
Self-pronouncing text.
Marginal references.

Over 1200 pages.

It is stamped in gold and is actually worth \$5, but you can get it only thru the popular certificate plan of The World. other page of this issue. Clip it and present it and you'll learn how to relieve your mind of the worries of Christmas giving.

Danken the Hair Don't Wait Too Long to Enter

TIME is fleeting—the great and entertaining Contest of The Toronto World is rapidly drawing to a close. There are only five more Proverb Pictures to be published—but as the time limit for sending in answers has

Look Here. **Proverb Contestants**

been extended to midnight of Tuesday, December 31st, there is still time to enter and compete for the prizes.

THE FIRST SET OF ANSWERS **WILL HAVE NO PREFERENCE** OVER THE LAST

In this competition the contestant who deposits the first set of answers will stand no better show than the last. The correct answer-correct in wording, spelling and punctuation, and exactly as contained in The World's Book of English Proverbs—are the essentials that will count. Therefore anyone may enter now and get in line to win a share of

\$5000 12 GRAND PRIZES FREE

First Prize—A \$2250 Jackson Touring Car Second Prize—A \$750 Blundall Player Piano Third Prize—A \$350 R. F. Wilks Piano Fourth Prize—A \$300 Burnett Piano Eight Other Grand Prizes—Thirty Other Prizes

Enter the Contest Now-Read List of Prizes and Solve the Proverb on Page 2 Today

LTHO the time limit for sending in answers has been extended until midnight of December 31st, there's no time to lose. Beginners and contestants who desire extra back pictures and coupons should place their orders early as there will be no more special coupon offers or reductions from the regular price.

> EXTRA BACK PICTURES & COUPONS Are 1c for the Daily and 5c for the Sunday.

All of the back proverb pictures and their coupon blanks from one to seventy-one, inclusive, are now on sale at the office of The World, or they will be sent to any address in Canada by return mail, prepaid, up on receipt of \$1.17 stamps, express or postoffice money order.

Order the Back Numbers and Enter Now You May Win a Big Prize!

GIRLS GAVE EXHIBITION Fine Entertainment by Pupils of Somers School.

The Somers School of Physical sical training exhibition Tuesday night in C.O.F. Hall before a large audience The program was rendered by girls attending the school. There were fifteen numbers on the program, which included a series of gymnastic drills, folk dances, fencing and vocal solos. The leaders' corps of the Central Y.M.C.A. leaders corps of the Central Y.M.C.A.

give an exhibition of gymnastics on parallel bars. Miss Jessie Alexander's Junction 2258.

Offices: 111 KING ST. E., Phone Main 1907, and 14 MORROW AVE., Phone Junction 2258. elocution was much appreciated, and the solos by Miss A. Montgomery, "A Winter's Lullaby," 'Mrs. Herbert Coleman, "I Wonder If Ever the Rose" and "Sunshine and Rain," and Miss Eleanor Wright were enthusiastically Press, —C.

TWO THRESHERS MAY DIE.

WYOMING, Dec. 10.—(Can. Press.)—
Two fatalities may result from threshing accidents near here today, Guy Lucas, a young farmer, is in an unconscious condition as the result of being struck on the head while threshing, and Joseph Scott, a farmer residing near Camlachie, is in an almost equally dangerous condition from wounds of the same nature.

IS YOUR HOME WARM?

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TORONTO FURNACE & CREMATORY CO. Limited

OFFICER KILLED BY TEHERAN, Persia, Dec. 11 .- (Can.

ROBT. BICKERDIKE, M.P., HURT.

OTTAWA, Dec. 11.—Robert Bicker- forty gallon tark of gasoline, which

\$1,000 REWARD

For information that will lead to the discovery or whereabouts of he person or persons suffering from Nervous Debility, Fits, Skin Disease, Blood Poison, Genito Urinary Troubles, and Chronic or Special Complaints that cannot be cured at The Ontario Medical Institute, 233.265 Yonge Street, Toronto.

ESCAPED FIRE AND WATER.

Press.)—Captain Ackford of the British William Lacroix and four redskins, SARNIA, Dec. 11.—(Special.) army has been killed by tribesmen who live on the Walpole Island Renear Shiraz, capital of the Province of serve, had a narrow escape from both fire and water when the former's iaunch took fire in the St. Clair River, near Walpole Island, and ignited a dike, Liberal member for the St. Lawrence Division of Montreal, on his way
to the house of commons this afternoon, noon, fell and fractured his leg.
Mr. Bickerdike was taken to Montreal.

Mr. Bickerdike was taken to Montreal. THURSDAY, DECEMBER 12, 1912

TORONTO WORLD'S Proverb Contest \$5,000 IN PRIZES

Began Oct. 3rd. Last Picture Dec. 16th NO. 71 PICTURE Represents the Following Proverb

DO NOT SEND IN ANSWERS UNTIL AFTER LAST PICTURE IS

What Well-Known English Proverb Does This Picture Represent?



TORONTO WORLD'S PROVERB PICTURE NO. 71

The World's Book of English Proverbs Solves the Pictures Correctly

HE Toronto World's Book of English Proverbs will prove of great assistance to contestants in the Proverb Contest. It contains several thousand commonly used and well-known English Proverbs, including all of the correct ones to be selected to the series of proverb illustrations. The book is well printed and neatly bound, the Proverbs being alphabetically arranged and classified for quick reference. Its use to contestants in arriving at the correct Proverb answers, together with the proper spelling, wording and punctuation, will prove indispensable. The price of the book is Fifty Cents, at the office of The World. By mail, two cents extra.

MAIL ORDERS SHOULD BE ADDRESSED TO THE CONTEST MANAGER THE TORONTO WORLD, TORONTO, CANADA

List of Prizes Aggregating More \$5,000 in Value

18T PRIZE—\$2250 NEW OLYM-PIC 1913 MODEL, FIVE-PAS-SENGER JACKSON TOURING CARswith all the latest attach-ments, fully equipped. Pur-chased from the Jackson Car Company of Ontario, Limited, 328 High Park avenue.

2ND PRIZE — 3750 BLUNDALL PLAYER - PIANO, Louis XV. style, with fitteen Music Rolls and Bench. Purchased from The Blundall Plano Company, 144 Spadina avenue. SRD PRIZE—\$350 R. F. WILKS UPRIGHT PIANO, in beautiful walnut case. Purchased from R. F. Wilks, 11-13 Blcor street

4TH PRIZE—5300 BURNETT UP-RIGHT PIANO, in manogany. Purchased from the Burnett Piano Company, 216 Yonge street.

TORCYCLE. Purchased from The Toronto Motorcycle Company, 384 Spadina avenue.

6TH PRIZE \$265 EXCELSIOR AUTOCYCLE. Purchased from Percy A. McBride, 342 Yonge street.

7TH PRIZE \$256 NINE - PIECE DINING - ROOM SUITE, in fumed oak. Purchased from L. Yolles, Furniture, 363-365 West Queen street.

STH PRIZE — \$225 SIX-PIECE BEDROOM SUITE, in full mahogany. Purchased from S. Levinter, 401-405 West Queen street.

SOLITAIRE DIAMOND RING.
Purchased from Ellis Bros.
Diamonds, 108 Yonge street. 10TH PRIZE—\$100 FOUR-PIECE LIBRARY SUITE, in fumed oak, pigskin leather upholster-ed. Purchased from L. Yolles. 863-365 West Queen street.

11TH PRIZE — \$100 GENUINE SOLITAIRE DIAMOND RING. Purchased from Ellis Bros., Diamonds, 108 Yonge street.

12TH PRIZE — \$50 DIAMOND CLUSTER RING. Purchased from Ellis Bros., Diamonds.

13TH TO 17TH PRIZES—556— LEATHER TRAVELING BAGS, at \$10 each. Purchased from Fink Trunk & Bag Co., 149 West Queen street.

18TH TO 42ND PRIZES 62.50— L. E. WATERMAN IDEAL FOUNTAIN PENS, \$2.50 each. ADDITIONAL PRIZES TO BE

ANNOUNCED LATER.

Entry to Contest May Be Made at Any Time

Have Your Newsdealer Begin to Serve You With a Copy of

The Baily and Sunday World Every Day From Now Oa. Back numbers of the Proverb Pictures and their Coupon Blanks may be had at the office of The World, or by mail. The price is 1 cent for the Daily and 5 cents for the Sunday. Where back numbers are ordered by mail 1 cent additional for every ten numbers must be remitted for postage. All of the back numbers from October 3rd to date will be mailed prepaid to any address in Canada upon receipt of \$1.17.