

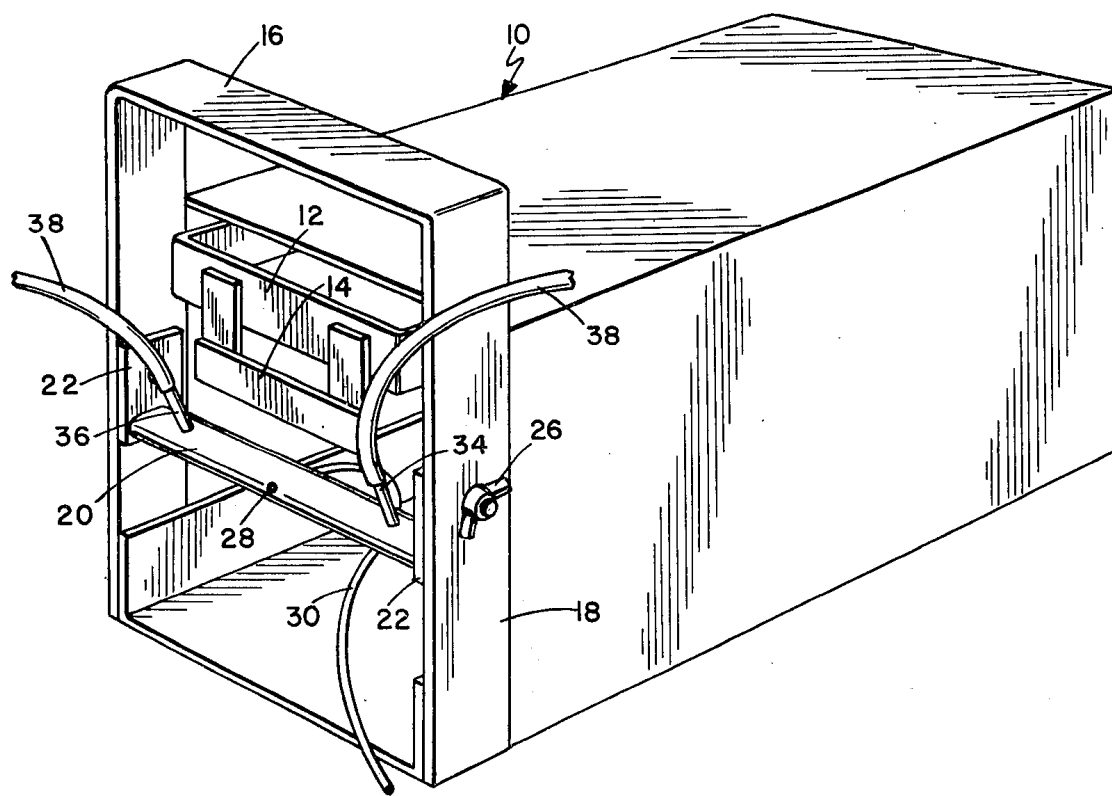
8 Documents

Publication numbers	Title	Current assignees
US4026289 A	Vaccinating and beak -holding accessory for a bird processor	HENDRIX EDWARD M
EP2579188 A1	Chick counter and method for counting chicks	PAS REFORM
US20040143278 A1	Apparatus for upper and lower beak treatment	NOVA TECH ENGINEERING
US5651731 A	Method and apparatus for debeaking poultry	NOVA TECHNOLOGY ENGINEERING
IT99VE0029 A1	Automatic machine for vaccinating chicks and similar birds	POULTRY VACC
CN103734035 A	Poultry beak treatment device	SHEN HAI ANIMAL HUSBANDRY
US20090157038 A1	Poultry vaccination apparatus and method	ZOETIS SERVICES
FR2920295 A1	Device for injecting veterinary products to poultry including a contention member having an anatomic form with means for bracing a detectable bone	DESVAC

Family 1/8 - FAMPAT - ©Questel

Title

(US4026289)

Vaccinating and **beak**-holding accessory for a **bird** processor**Images****Publication data including kind & date**[US4026289](#)

A 1977-05-31 US4026289

**Abstract**

(US4026289)

The invention is an attachment or an accessory for a **bird** processing machine which is used primarily for trimming one or more of the **beak** members of the **bird** to prevent cannibalism, the accessory comprising a removable hollow bar member which is interchangeable in the processing machine with other slightly different accessories, the bar member serving as a support for the **beak** and as an anvil against which a cauterizing blade moves to trim the upper **beak** member, there being an oral applicator tube passing through the bar from the rear to introduce a fine stream of oral application liquid through an orifice in the bar to the **bird**'s mouth while the upper **beak** member is trimmed, there being a flow of cooling fluid through the bar to prevent burning the **bird**'s mouth and to cool the oral application.

Inventors

HENDRIX EDWARD M

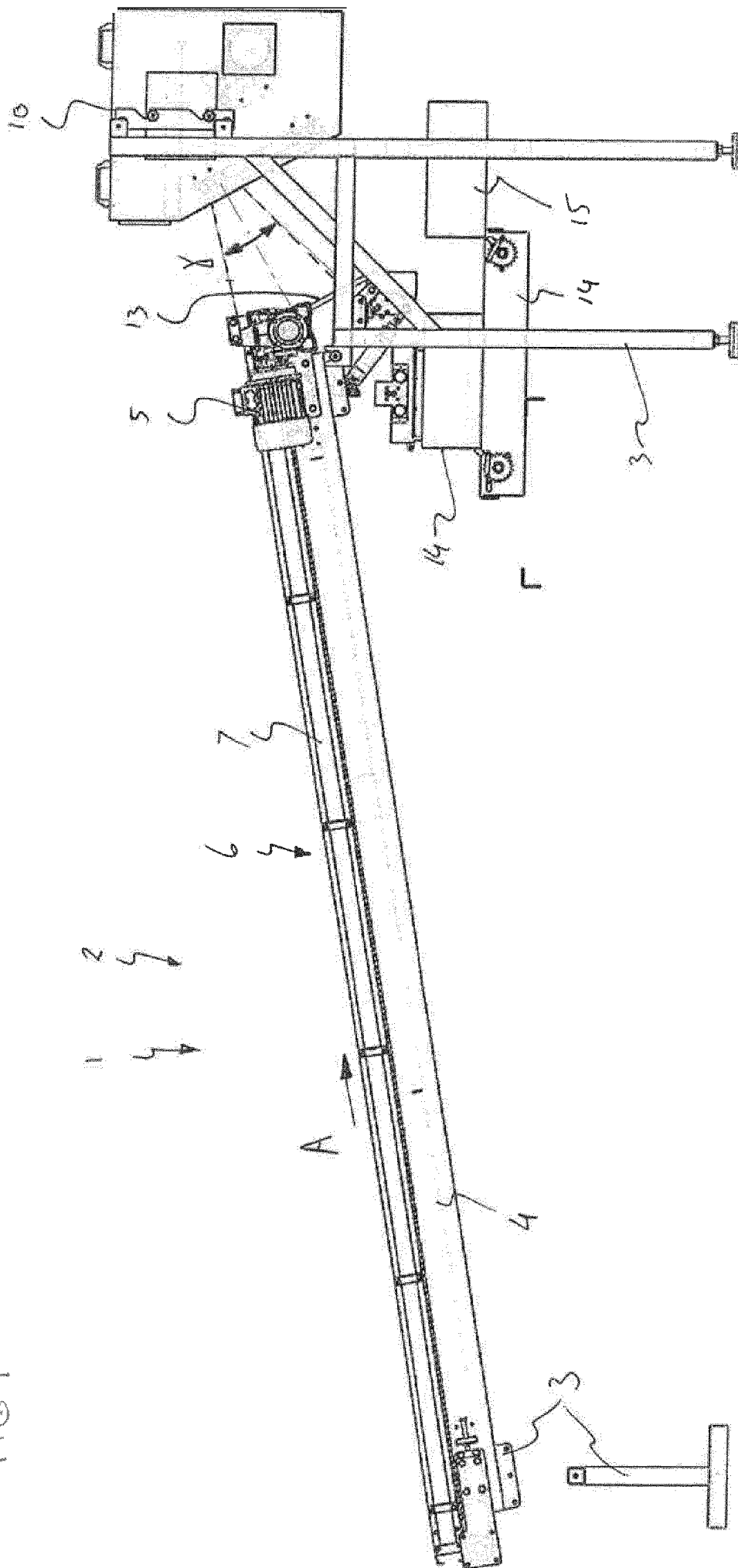
Family 2/8 - FAMPAT - ©Questel

Title

(EP2579188)

Chick counter and method for counting **chicks****Images**

FIG 1



Publication data including kind & date

EP2579188	A1	2013-04-10	EP2579188
EP2579188	B1	2018-03-21	EP2579188

**Abstract**

(EP2579188)

Chick counter device and method. The counter comprises a camera, a **chick** supply line passing the scope of the camera, and a data processing unit communicating with the camera and programmed to process images captured by the camera to identify and count individual **chicks** by comparing a plurality of subsequently captured images. The data processing unit can, e.g., be programmed to count individual **chicks** passing a virtual line at the lower end of the camera scope in an image captured by the camera. Subsequently it compares the image with one or more earlier captured images to trace back the path of the individualized **chicks**. The number of counted **chicks** is corrected if a **chick** counted for one in step a appears to be countable for two or more **chicks** in at least one earlier captured image. The camera can e.g. be a videocamera.

Inventors

WEEKERS ROGIER

Latest standardized assignees - inventors removed

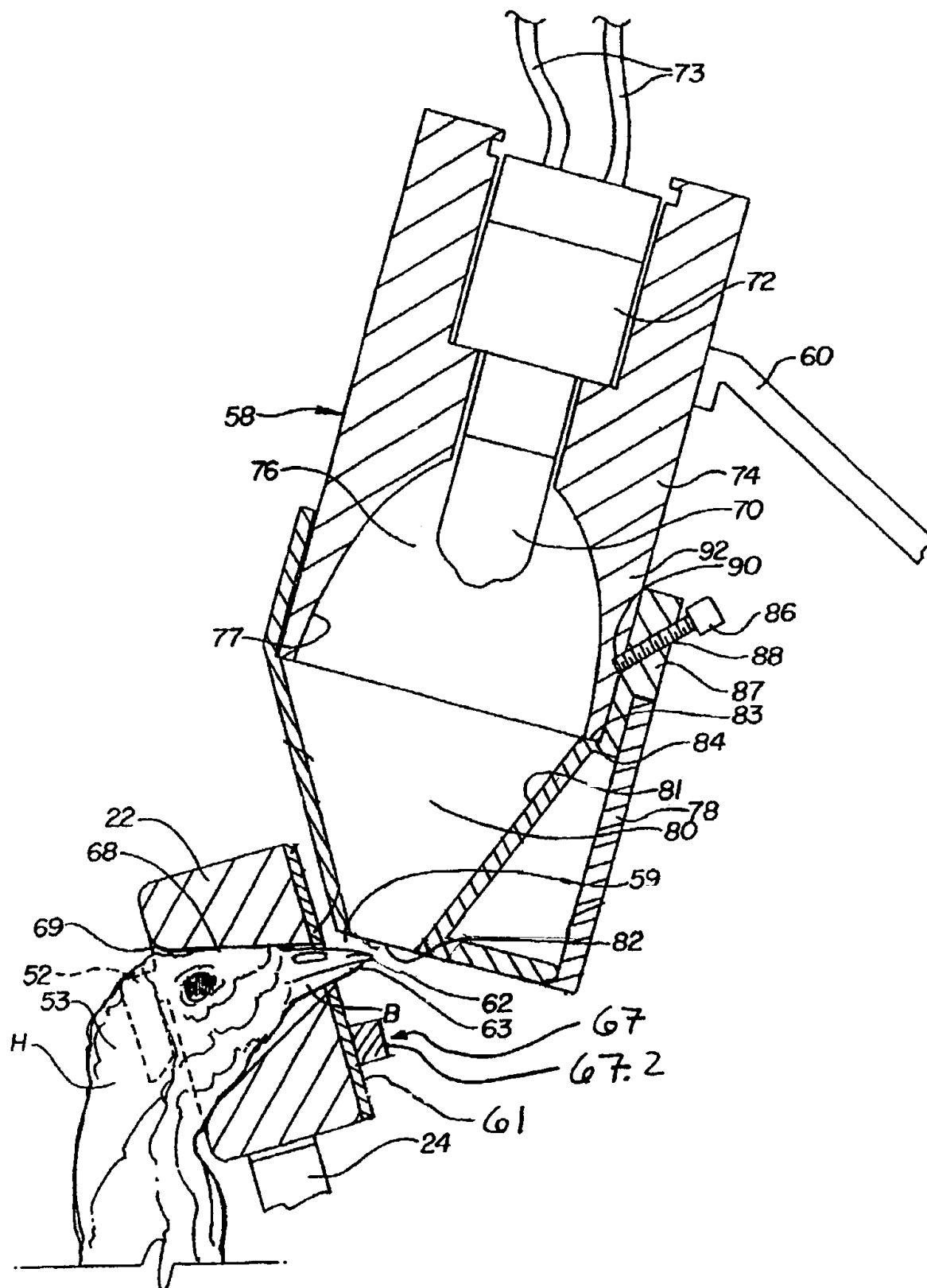
PAS REFORM

Family 3/8 - FAMPAT - ©Questel

Title

(EP2111817)

Apparatus for upper and lower **beak** treatment**Images**



Publication data including kind & date

US20040143278	A1	2004-07-22	US20040143278
WO2004066864	A1	2004-08-12	WO2004066864
CA2512702	A1	2004-08-12	CA2512702
KR20050091090	A	2005-09-14	KR20050091090
EP1589898	A1	2005-11-02	EP1589898
CN1738578	A	2006-02-22	CN1738578
US7232450	B2	2007-06-19	US7232450
EP1589898	B1	2009-07-29	EP1589898



AT437613	T	2009-08-15	ATE437613				
DE602004022249	D1	2009-09-10	DE602004022249				
EP2111817	A1	2009-10-28	EP2111817				
ES2330105	T3	2009-12-04	ES2330105				
CN1738578	B	2010-04-28	CN1738578B				
IL169582	B	2010-11-30	IL-169582				
EP2111817	B1	2011-11-16	EP2111817				
AT533432	T	2011-12-15	ATE533432				
KR101096386	B1	2011-12-20	KR101096386				
ES2374489	T3	2012-02-17	ES2374489				
CA2512702	C	2012-03-27	CA2512702				

Abstract

(EP2111817)

Apparatus and methods for treating the upper and lower beaks of poultry by non-contact heating of the upper and lower beaks of the **bird** are disclosed. The upper and lower **beak** treatment may include delivery of energy to the upper and lower **beak** in amounts sufficient to retard the growth and/or result in erosion of portions of both the upper **beak** and the lower **beak**. The energy incident on the lower **beak** may be reflected from a lower **beak** energy director (e.g., a reflector) or it may be provided a separate energy source.

Inventors

GORANS MARC S

ERICKSON MATTHEW H

Latest standardized assignees - inventors removed

NOVA TECH ENGINEERING

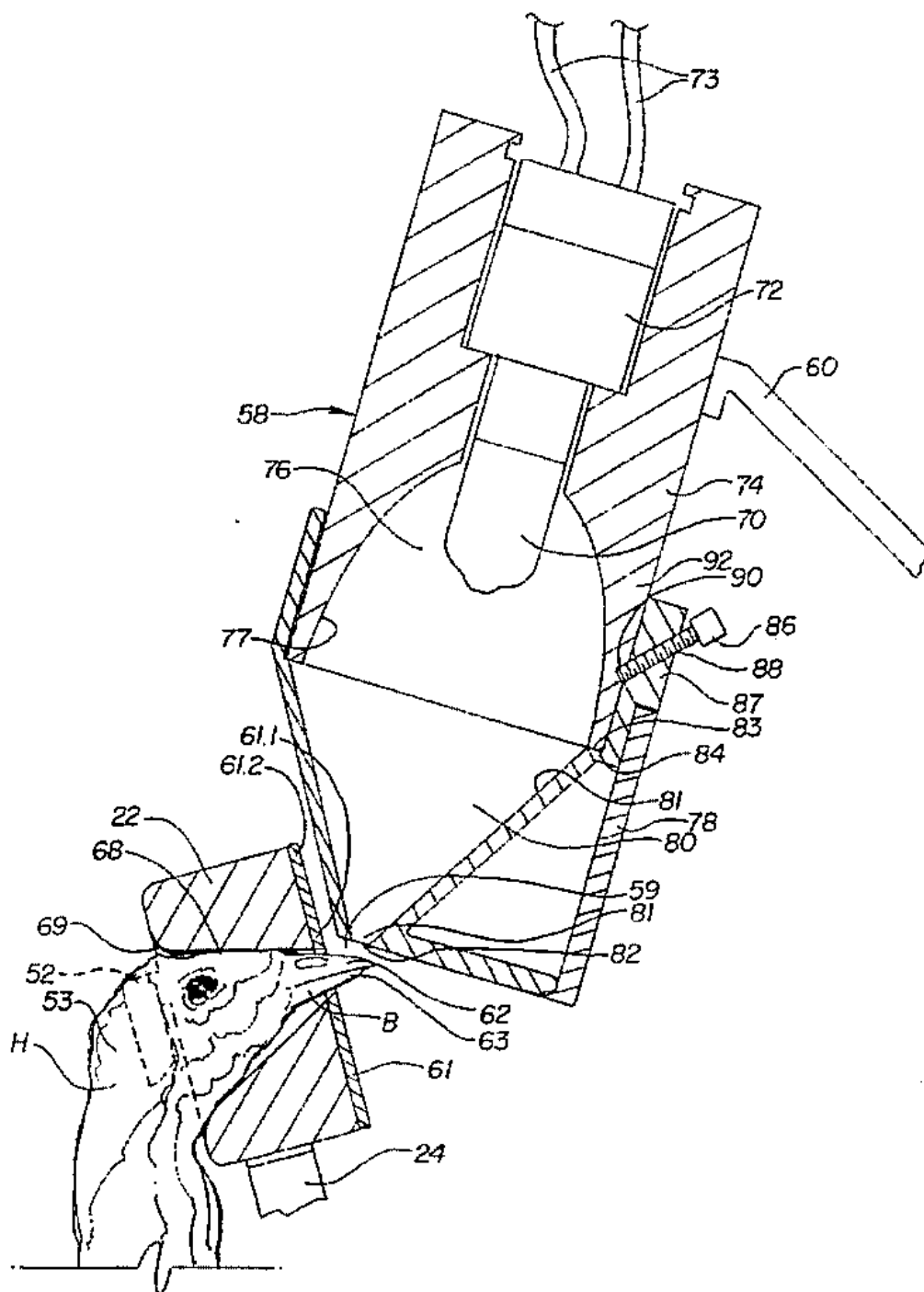
Family 4/8 - FAMPAT - ©Questel

Title

(US5651731)

Method and apparatus for debeaking poultry

Images



Publication data including kind & date

US5651731

A

1997-07-29

US5651731



Abstract

(US5651731)

The present invention relates to debeaking turkey and chick poultry through non-contact thermal transfer from a source of high frequency heat generating radiation. The present invention directs heat onto the upper beak of a live bird by convection or radiation to thereby affect the continued growth of the beak. Such heating of the bird's upper beak provides a debeaking method which allows the bird's upper beak to stay in place for several days allowing the bird to eat and drink. Heating the portion of the upper beak also allows the poultry tongue and lower beak to be shielded from the heat causing less trauma and injury to the bird. The heat may be directed onto the poultry upper beak by radiation or convection.

Inventors

GORANS MARC S

JOHNSON SCOTT C

Latest standardized assignees - inventors removed

NOVA TECHNOLOGY ENGINEERING

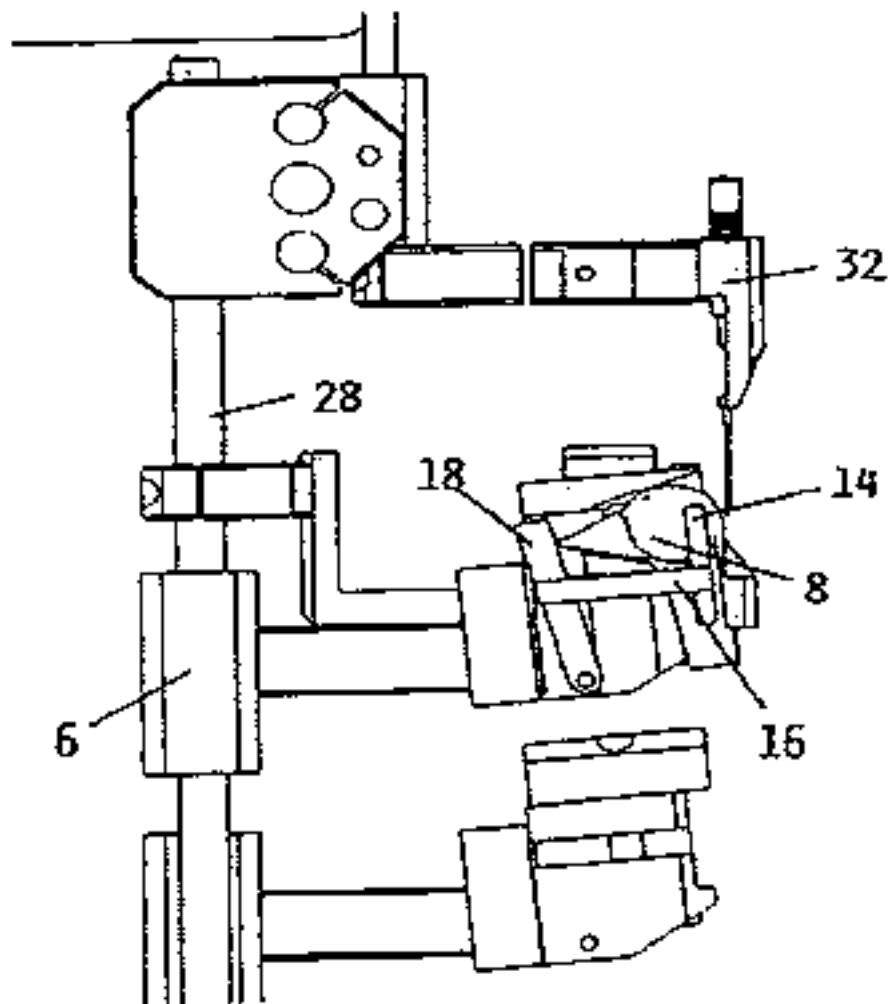
Family 5/8 - FAMPAT - ©Questel

Title

(EP1196112)

Automatic machine for vaccinating chicks and similar birds

Images



Publication data including kind & date

ITVE990029	A1	2001-01-08	IT99VE0029				
WO200103605	A1	2001-01-18	WO200103605				
AU6150900	A	2001-01-30	AU200061509				
IT1311478	B1	2002-03-13	IT1311478				
BR0012067	A	2002-04-02	BR200012067				
BRPI0012067	A1	2002-04-02	BRPI0012067				
EP1196112	A1	2002-04-17	EP1196112				
TR200200002	T2	2002-05-21	TR200200002				
CN1360483	A	2002-07-24	CN1360483				
JP2003504114	A	2003-02-04	JP2003504114				
EP1196112	B1	2003-03-05	EP1196112				
AT233522	T	2003-03-15	ATE233522				
DE60001583	D1	2003-04-10	DE60001583				
US6634319	B1	2003-10-21	US6634319				

DE60001583

T2 2003-11-20

DE60001583

BRPI0012067

A2 2011-12-13

BR200012067

**Abstract**

(EP1196112)

An automatic machine for the multiple vaccination of **chicks** and similar birds, characterised by comprising at least one pair of side-by-side holders (10), each arranged to receive a **chick** (8) to be vaccinated, each holder comprising: a seat (12) into which the head of the **chick** (8) to be vaccinated is manually inserted, means (14) for automatically locking the **chick's** head inserted into said seat (12), a presser (22) acting on the **chick** to stabilize that neck portion into which the injection is to be effected, means for vertically moving, relative to said presser member, said seat (12) in which the head of the **chick** is inserted and locked, means for automatically operating said presser (22) on termination of said relative movement, at least one needle (24) mounted on a member (30) movable relative to the stabilized **chick** between said seat (12) and said presser (22), for its insertion into the **chick's** neck below the skin, and means for returning said needle (34), said presser (22) and said locking means (14) after the injection has been effected, to enable the **chick** (8) to fall spontaneously onto an underlying collection means.

Inventors

ZERMOGLIO LORENZO

ARTUSO ANGELO

Latest standardized assignees - inventors removed

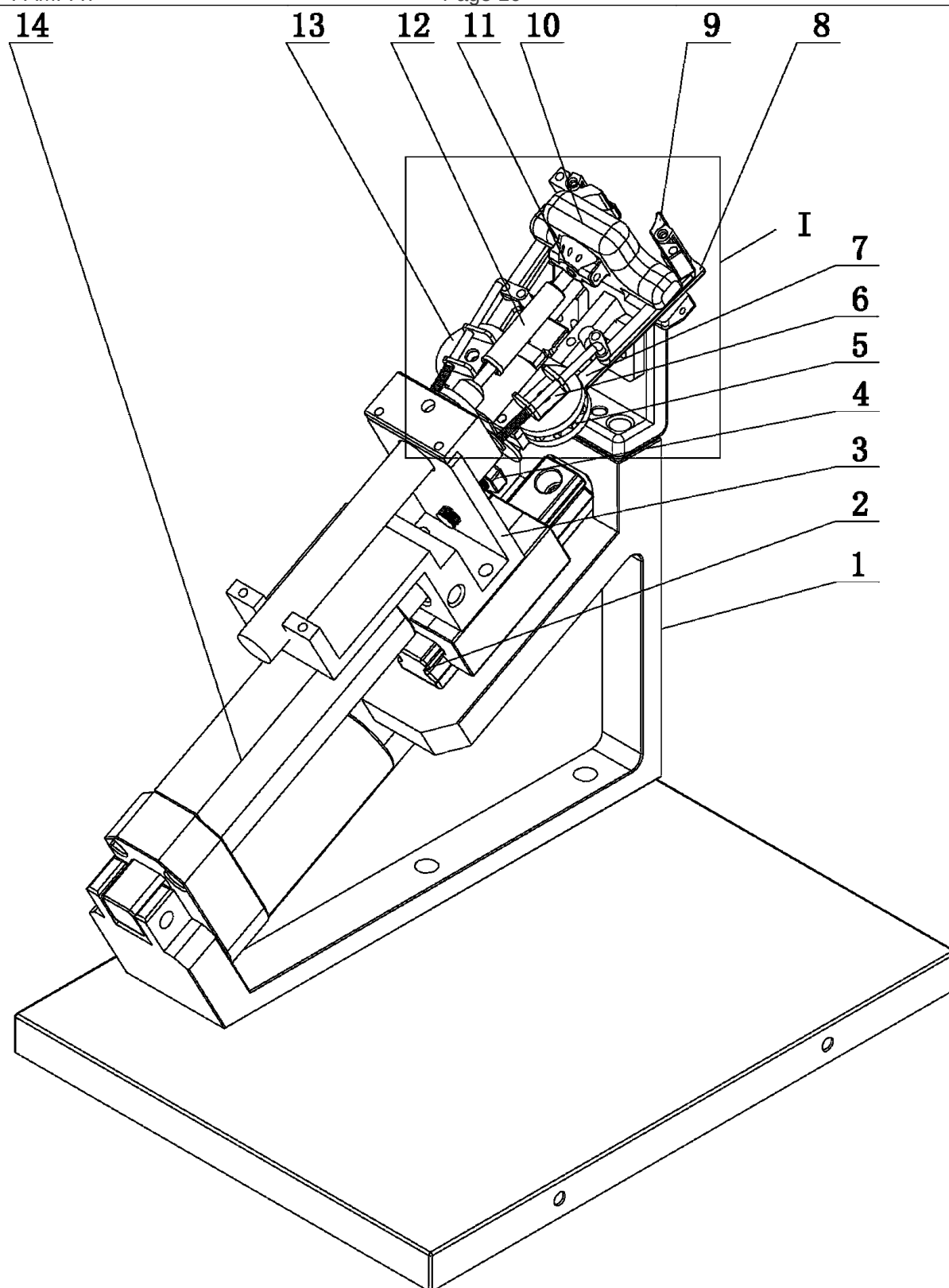
POULTRY VACC

Family 6/8 - FAMPAT - ©Questel

Title

(CN103734035)

Poultry **beak** treatment device**Images**



Publication data including kind & date

CN103734035	A	2014-04-23	CN103734035
CN103734035	B	2015-09-16	CN103734035B



Abstract

(CN103734035B)

The invention discloses a poultry **beak** treatment device, and relates to the improvement of the poultry **beak** treatment device structure. The invention provides the poultry **beak** treatment device which can reduce harmful stimulation to **chickens** and avoid dying caused by excessive bleeding after the **beak** breaks, and is high in **beak** breaking efficiency and accurate in **beak** breaking. The poultry **beak** treatment device comprises a base, and is characterized in that an electric push rod is arranged on the base, the end part of the electric push rod is provided with a heating source, a **chicken** fixing device is

arranged corresponding to the heating source, the **chicken** fixing device is provided with a first groove corresponding to the shape of the **chicken** head, and a **beak** hole corresponding to the heating source is arranged in the first groove.

Inventors

Sun Yan Yue Xuan

DU YAN

CHEN DIANXING

FU CHONG

BAO LIN

Latest standardized assignees - inventors removed

SHEN HAI ANIMAL HUSBANDRY

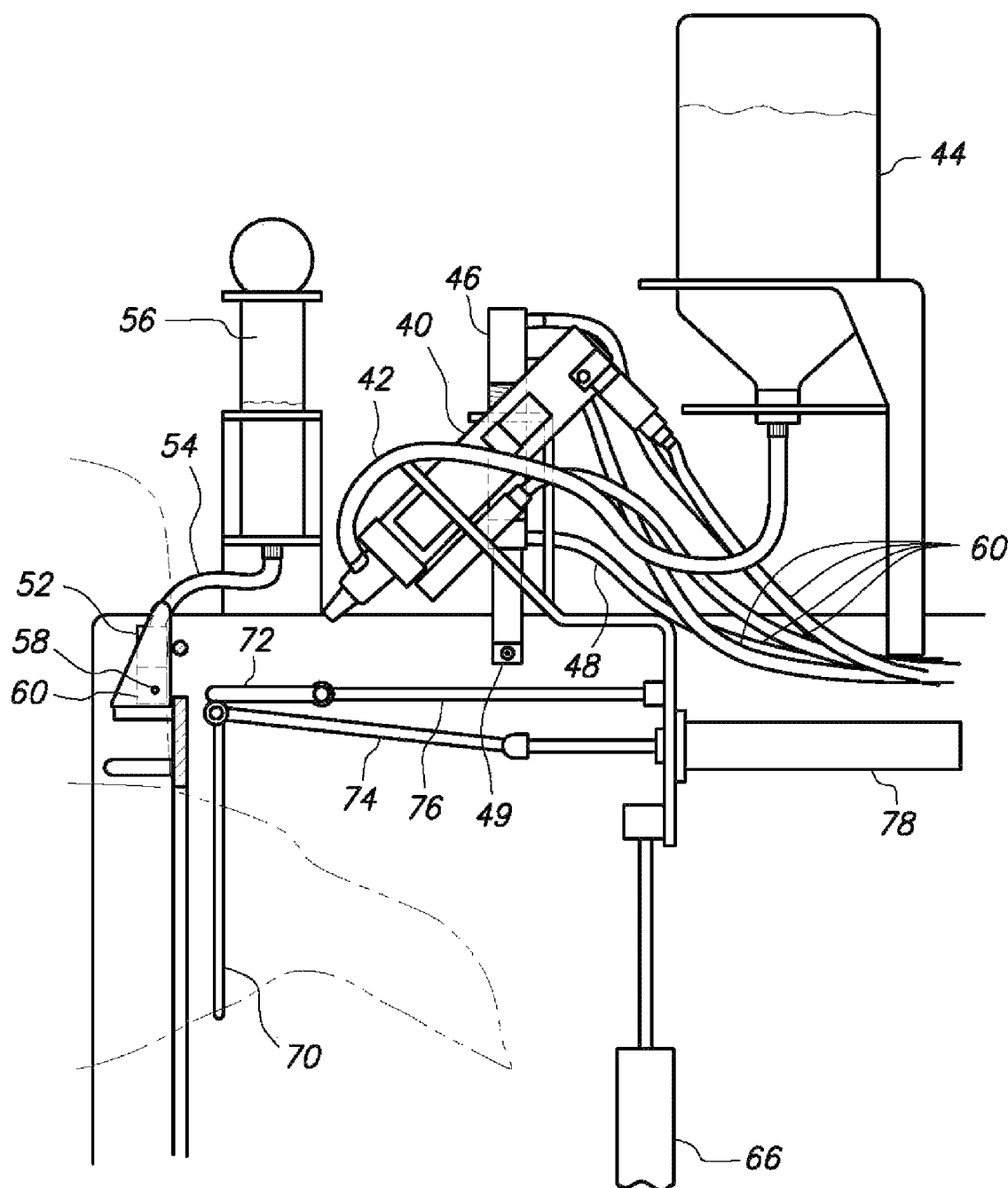
Family 7/8 - FAMPAT - ©Questel

Title

(US7802541)

Poultry vaccination apparatus and method

Images

**Publication data including kind & date**

US20090157038

A1 2009-06-18

US20090157038

US7802541

B2 2010-09-28

US7802541

**Abstract**

(US7802541)

An apparatus for providing multiple vaccinations of poultry simultaneously is described. A neck injection, breast injection, two wing injections, and an eye mist or drop may be performed in one operation. The apparatus holds the **bird** in position for precise location of injections, thereby reducing wasted vaccine. The risk of injury to the **bird** during the process is minimized by greatly reducing the manual handling of the **bird** during vaccination. Vaccination costs are also reduced by the reduction of labor otherwise required in this process.

Inventors

JONES JESSE

COX LARRY

HICKS CLOVIS

Latest standardized assignees - inventors removed

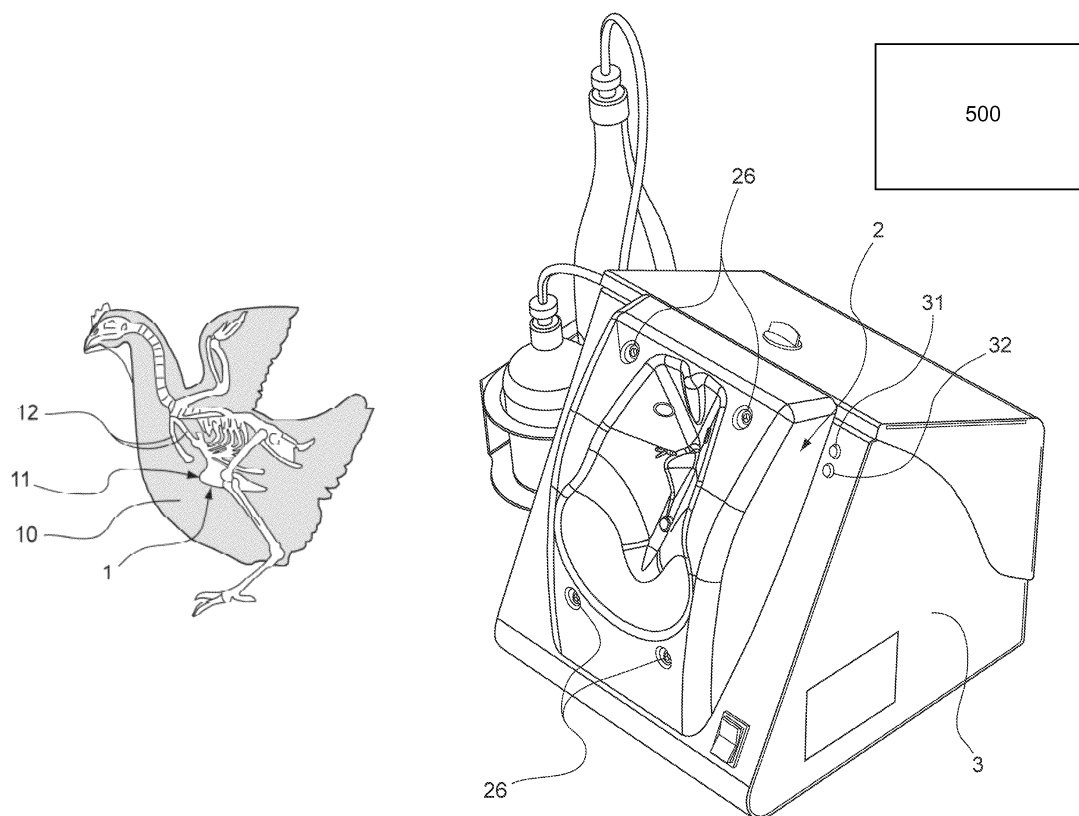
ZOETIS SERVICES

Family 8/8 - FAMPAT - ©Questel

Title

(EP2185100)

Device for injecting veterinary products to poultry including a contention member having an anatomic form with means for bracing a detectable bone

Images**Publication data including kind & date**

FR2920295	A1	2009-03-06	FR2920295
WO2009030755	A1	2009-03-12	WO2009030755
FR2920295	B1	2009-12-11	FR2920295
EP2185100	A1	2010-05-19	EP2185100
CN101848684	A	2010-09-29	CN101848684
ZA201001917	B	2010-11-24	ZA201001917
JP2010537756	A	2010-12-09	JP2010537756
US20110054401	A1	2011-03-03	US20110054401
RU2010111849	A	2011-10-10	RU2010111849
US8211058	B2	2012-07-03	US8211058
RU2469678	C2	2012-12-20	RU2469678
JP5232236	B2	2013-07-10	JP5232236
CN101848684	B	2013-08-28	CN101848684B
BRPI0816276	A2	2013-09-17	BR200816276
BRPI0816276	B1	2016-03-01	BR200816276
EP2185100	B1	2017-01-11	EP2185100
ES2622103	T3	2017-07-05	ES2622103
PL2185100			



T3 2017-07-31 PL2185100

Abstract

(EP2185100)

The invention relates to a device for injecting veterinary products to at least one **bird** by intramuscular injection, wherein said injection(s) can be carried out in the area of at least one muscle in the vicinity of a bone having a detectable shape in the body of said poultry, said device comprising: a contention member with means for bracing said detectable bone, at least one hole being formed in said contention member; at least one injection needle, said needle(s) being movable across said opening(s); characterised in that the contention member has: an anatomic shape that conforms to a portion of the body of said poultry and inside which is provided said means or bracing the detectable bone, said anatomic shape including a bearing surface for said body at said muscle; at least two contact sensors to be actuated by said poultry and provided on the anatomic shape with at least one on the bearing surface, said opening(s) being provided between said sensors.

Inventors

JORNA ANNO

Latest standardized assignees - inventors removed

DESVAC